

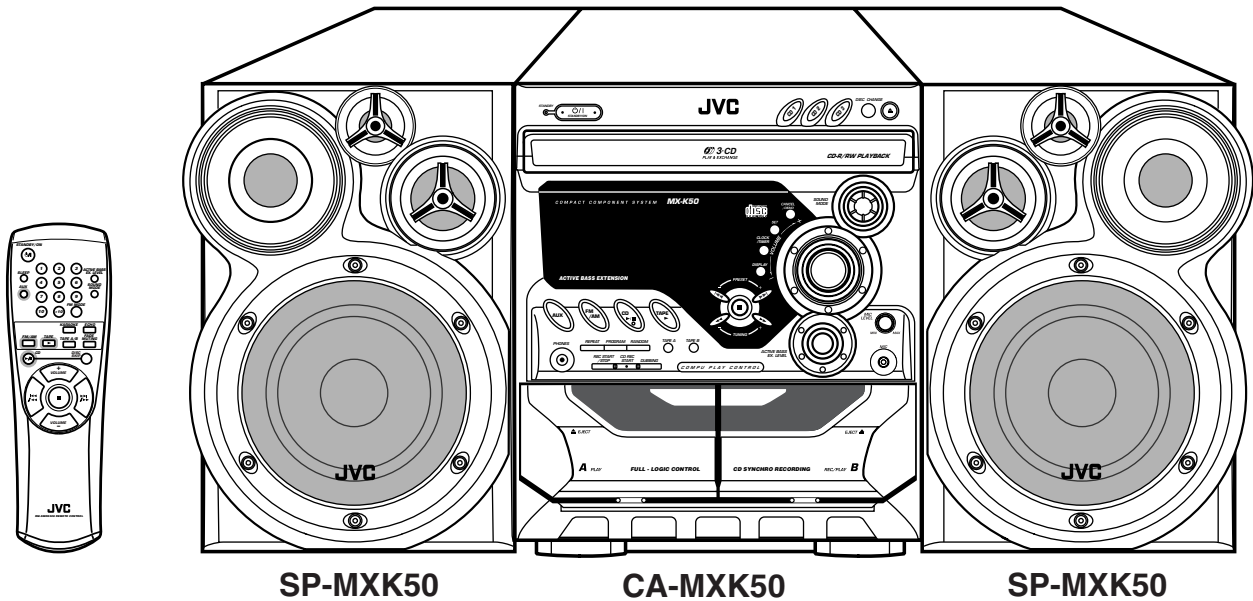
# JVC



## COMPACT COMPONENT SYSTEM 组合音响系统

# MX-K50

Consists of CA-MXK50 and SP-MXK50  
由 CA-MXK50 及 SP-MXK50 组成



COMPACT  
**disc**  
DIGITAL AUDIO

## INSTRUCTIONS 使用说明书

### 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. \_\_\_\_\_


LVT0903-006A


[U]

## Warnings, Cautions and Others


### 警告，注意及其他须知事项

---

**Caution —  switch!**

Disconnect the mains plug to shut the power off completely. The  switch in any position does not disconnect the mains line. The power can be remote controlled.

**注意—  开关！**

无论  开关在任何位置，电源线的电源还是没有被切断，若要将电源完全关闭，应把电源插头拔离插座。电源开关可用遥控器控制。

**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.

**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.
- Do 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.

**警告**

为了减低触电，火灾等危险：

1. 请勿擅自卸下螺丝钉，盖子或机壳。
2. 切勿让本机受雨淋或置潮湿环境中。

**注意**

- 请勿堵塞通风口或通风孔。  
(如果通风口或通风孔被报纸或布等堵塞，热量将无法散出。)
- 请勿在本设备上放置任何裸露的火源，如点燃的蜡烛。
- 处理废弃电池时，必须考虑环保问题，并严格遵守当地关于处理废弃电池的有关法律规定。
- 请勿将本设备暴露于雨中，有水蒸汽的地方，可能落下或溅上水滴的地方；亦请勿将装满液体的容器，如花瓶等放到本设备的上面。

### Caution: Proper Ventilation

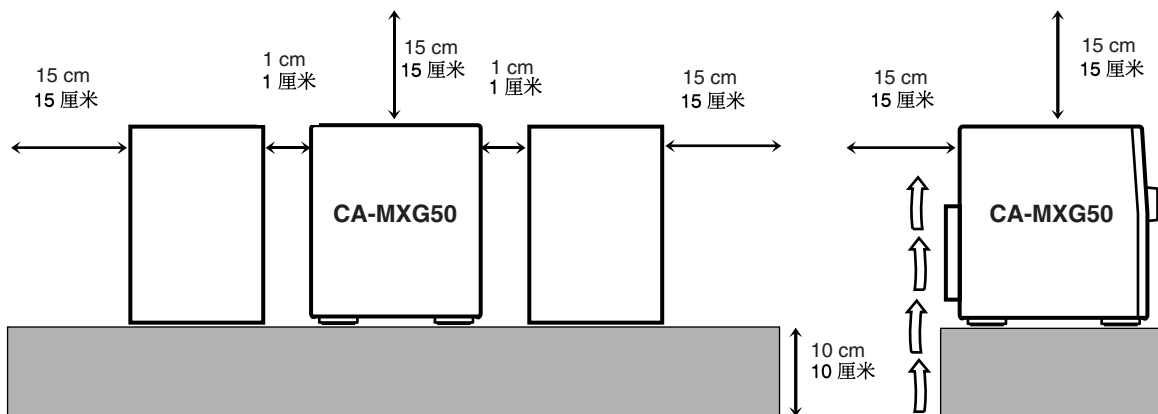
To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:

- 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.

### 注意：正确通风

为免发生触电和火警的危险，及防止本机受损，请将本机如下放置：

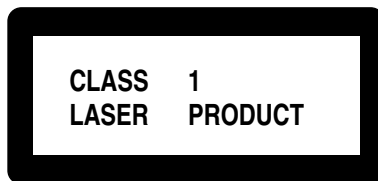
1. 前面： 没有障碍物及地方开阔。
2. 侧面/顶面/背面： 在图中所示范围中，不应放置任何障碍物。
3. 底部： 放置在水平面上。放置在一个高 10 厘米或以上的台上，以保持足够的通风道。



## IMPORTANT FOR LASER PRODUCTS / 雷射产品的重要说明

### REPRODUCTION OF LABELS / 标签内容说明

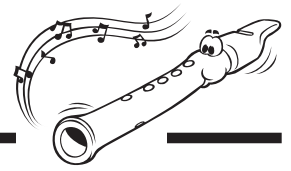
- ① CLASSIFICATION LABEL, PLACED ON ON EXTERIOR SURFACE      ② WARNING LABEL, PLACED INSIDE THE UNIT
- ① 分类标签，贴在机壳背后      ② 警告标签，贴于机内



<b>DANGER:</b> Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	<b>VARNING:</b> Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)	<b>ADVARSEL:</b> Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling (d)	<b>VARO:</b> Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)
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1. CLASS 1 LASER PRODUCT
  2. **CAUTION:** 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.
1. 一级雷射产品
  2. **注意：**当内部锁定装置失效或者损坏后，打开盖板可能会产生不可见的雷射辐射。应避免受到光束直接照射。
  3. **注意：**请勿打开顶盖板。本机内部没有用户可自行维修的部件；所有维修工作应由有资格的人员完成。

# 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 and 11.
- The following marks are used in this manual:



Gives you warnings and cautions to prevent 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 built-up 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 starting heating 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.

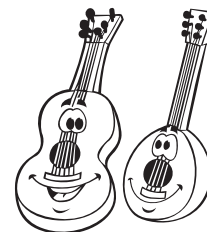
### Others

- 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.



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.

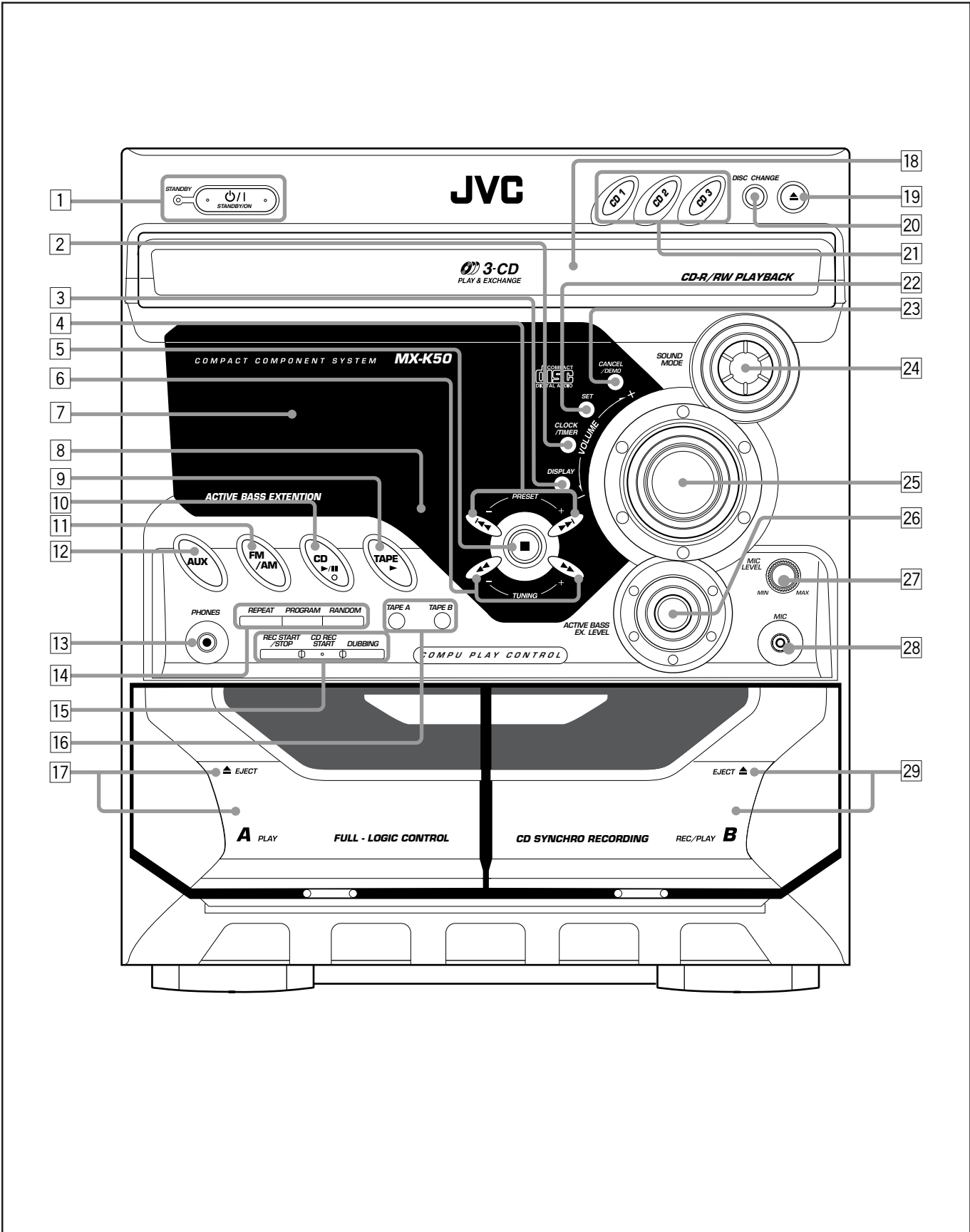


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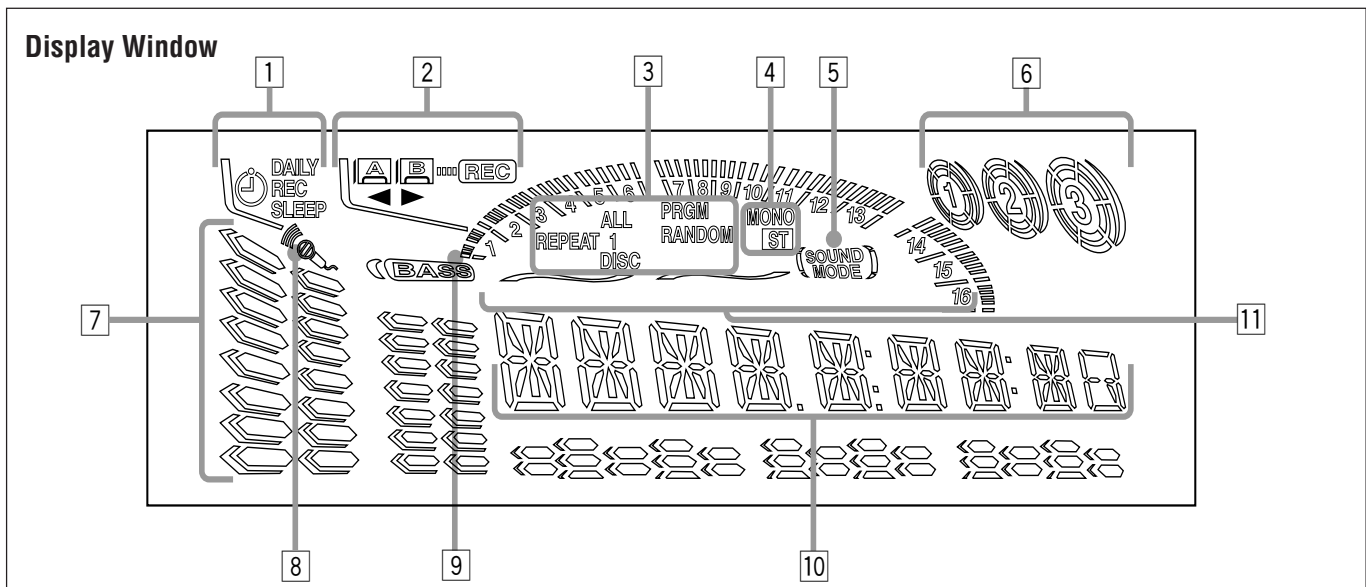
# Location of the Buttons and Controls

Become familiar with the buttons and controls on your unit.

## Front Panel







See pages in the parentheses for details.

### Front Panel

- 1 **⏻/I** STANDBY/ON button and STANDBY lamp (9, 10)
- 2 **CLOCK/TIMER** button (9, 21 – 23)
- 3 **DISPLAY** button (9)
- 4 **PRESET +/-** buttons (12)  
◀◀/▶▶ (reverse search/forward search) buttons (9, 14 – 16, 21 – 23)
- 5 **■** (stop) button (13 – 20)
- 6 **TUNING +/-** buttons (12)  
◀◀/▶▶ (fast rewind/fast forward) buttons (10, 14, 17)
- 7 Display window
- 8 Remote sensor
- 9 **TAPE ▶** button and lamp (10, 17, 19)  
*Pressing this button also turns on the unit.*
- 10 **CD ▶/||** (play/pause) button and lamp (10, 13 – 15, 20)  
*Pressing this button also turns on the unit.*
- 11 **FM/AM** button and lamp (10, 12)  
*Pressing this button also turns on the unit.*
- 12 **AUX** button and lamp (10)  
*Pressing this button also turns on the unit.*
- 13 **PHONES** jack (10)
- 14 **REPEAT** button (13, 14, 16)  
PROGRAM button (15)  
RANDOM button (16)
- 15 **REC START/STOP** button (18, 20)  
CD REC START button (19)  
DUBBING button (19)
- 16 **TAPE A** button (17)  
TAPE B button (17)
- 17 **Deck A** cassette holder (17, 19)  
*Pressing the ▲ EJECT portion opens the holder.*
- 18 Carrousel
- 19 **▲** (Carrousel open/close) button (13 – 16)  
*Pressing this button also turns on the unit.*
- 20 **DISC CHANGE** button (13, 14)

- 21 Disc number buttons and lamps (CD1, CD2, and CD3) (14 – 16, 19)

*Pressing one of these buttons also turns on the unit.*

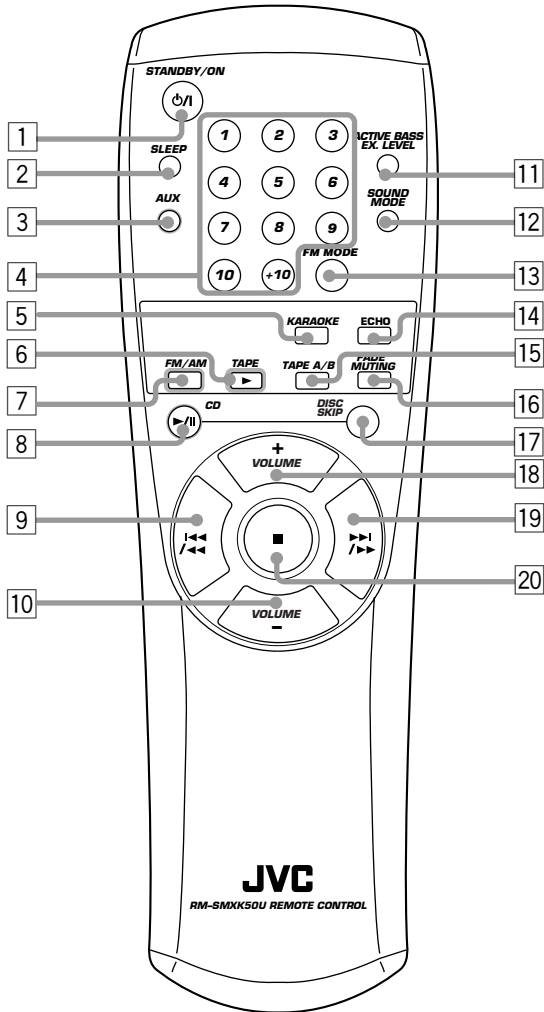
- 22 **SET** button (9, 12, 15, 21 – 23)
- 23 **CANCEL/DEMO** button (8, 9, 15, 21, 22)
- 24 **SOUND MODE** control (11)
- 25 **VOLUME** control (10, 20)
- 26 **ACTIVE BASS EX. LEVEL** control (11)
- 27 **MIC LEVEL** control (20)
- 28 **MIC** jack (20)
- 29 **Deck B** cassette holder (17 – 19)  
*Pressing the EJECT ▲ portion opens the holder.*

### Display window

- 1 **Timer** indicators
  - DAILY (daily timer), REC (recording timer), SLEEP (sleep timer), and ⏻ (timer) indicators
- 2 **Tape operation** indicators
  - A/B (operating deck), REC (recording), and ◀▶ (tape running) indicators
- 3 **CD play mode** indicators
  - REPEAT (1, 1 DISC, ALL DISC), PRGM (program), and RANDOM indicators
- 4 **Tuner operation** indicators
  - MONO and ST (stereo) indicators
- 5 **SOUND MODE** indicator
- 6 **Disc** indicators
- 7 **Volume level, Active Bass Ex. level, and Sound Mode** pattern indicators
- 8 **Karaoke** (🎤) and **echo** (🌀) indicators
- 9 **BASS** and its level indicators
- 10 **CD track number** indicators
- 11 **Main display**
  - Shows the source name, frequency, etc.

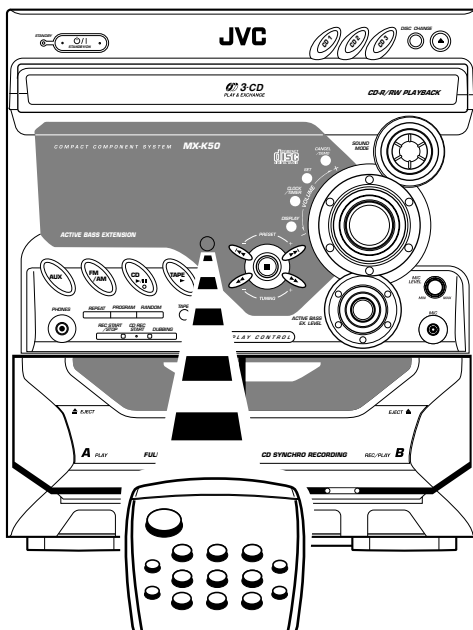


## Remote Control



## Remote Control

- 1 STANDBY/ON button (9)
- 2 SLEEP button (23)
- 3 AUX button (10)  
*Pressing this button also turns on the unit.*
- 4 Number buttons (12, 14)
- 5 KARAOKE button (20)
- 6 TAPE button (10, 17)  
*Pressing this button also turns on the unit.*
- 7 FM/AM button (10, 12)  
*Pressing this button also turns on the unit.*
- 8 CD button (10, 13 – 15)  
*Pressing this button also turns on the unit.*
- 9 (reverse search/fast rewind) button (12, 14, 16, 17)
- 10 VOLUME – button (10, 20)
- 11 ACTIVE BASS EX. LEVEL button (11)
- 12 SOUND MODE button (11)
- 13 FM MODE button (12)
- 14 ECHO button (20)
- 15 TAPE A/B button (17)
- 16 FADE MUTING button (10)
- 17 DISC SKIP button (13, 14)
- 18 VOLUME + button (10, 20)
- 19 (forward search/fast forward) button (12, 14, 16, 17)
- 20 (stop) button (13 – 20)



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

## Unpacking

After unpacking, check to be sure that you have all the following items.

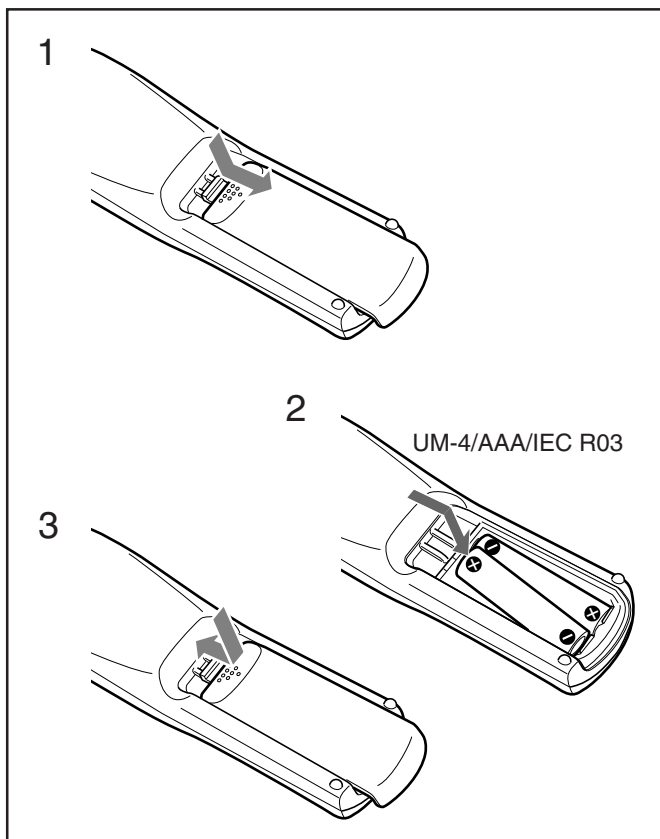
The number in the parentheses indicates the quantity of the pieces supplied.

- AM loop antenna (1)
- FM antenna (1)
- Remote control (1)
- Batteries (2)
- AC plug adaptor (1)

If any is missing, consult your dealer immediately.

## Putting the Batteries into the Remote Control

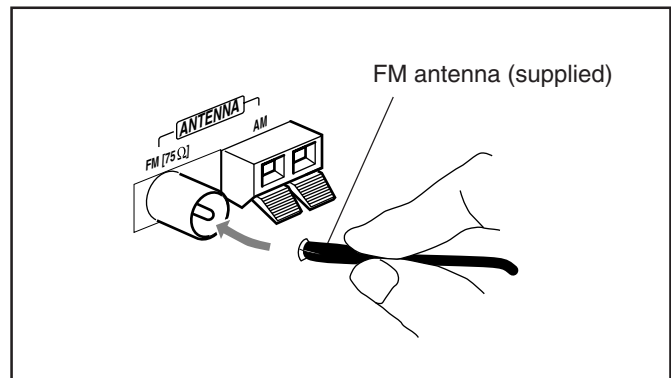
Insert the batteries—UM-4/AAA/IEC R03—into the remote control, by matching the polarity (+ and –) on the batteries with the + and – markings on the battery compartment. When the remote control can no longer operate the unit, replace both batteries at the same time.



- 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



- 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.**

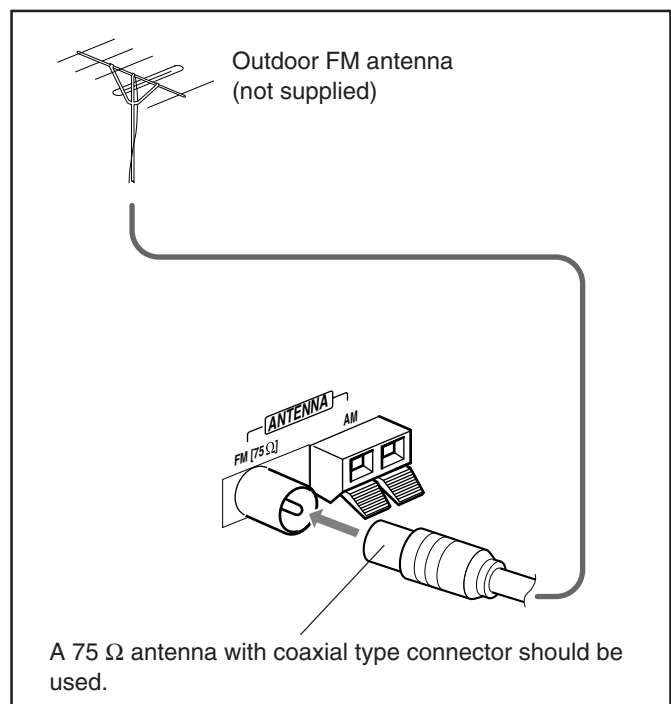


#### About the supplied FM antenna

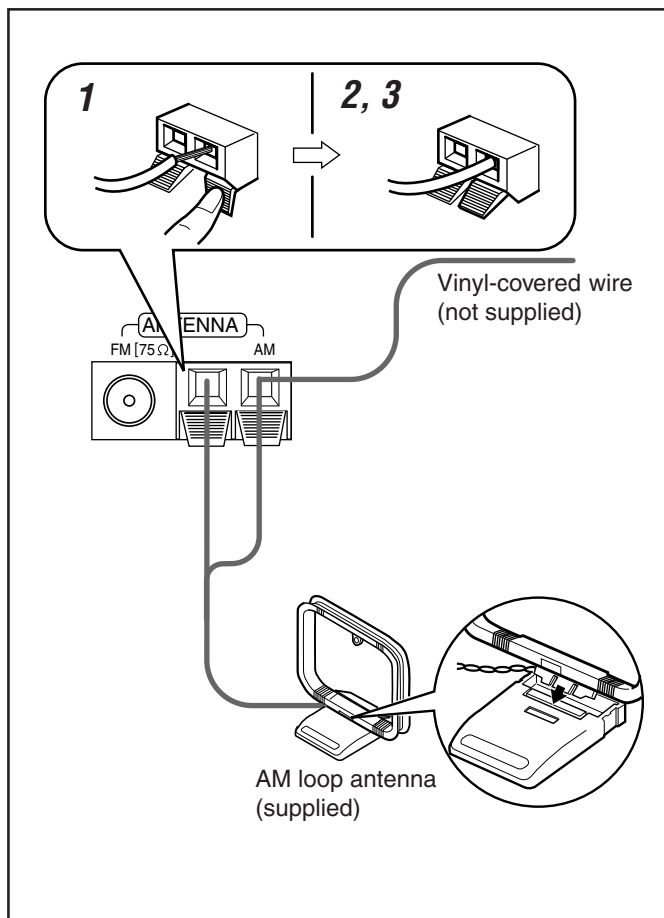
The FM antenna supplied with this unit can be used as temporary measure. If reception is poor, you can connect an outdoor FM antenna.

#### To connect an outdoor FM antenna

Before connecting it, disconnect the supplied FM antenna.



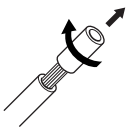
## AM antenna



**1** Press and hold the clamp of the AM terminal on the rear of the unit.

**2** Insert the end of the AM loop antenna cord into the terminal.

- If the AM loop antenna wire is covered with vinyl, remove the vinyl by twisting it as shown in the diagram.



**3** Release the finger from the clamp.

**4** Turn the AM loop antenna until you have the best reception.

#### To connect an outdoor AM antenna

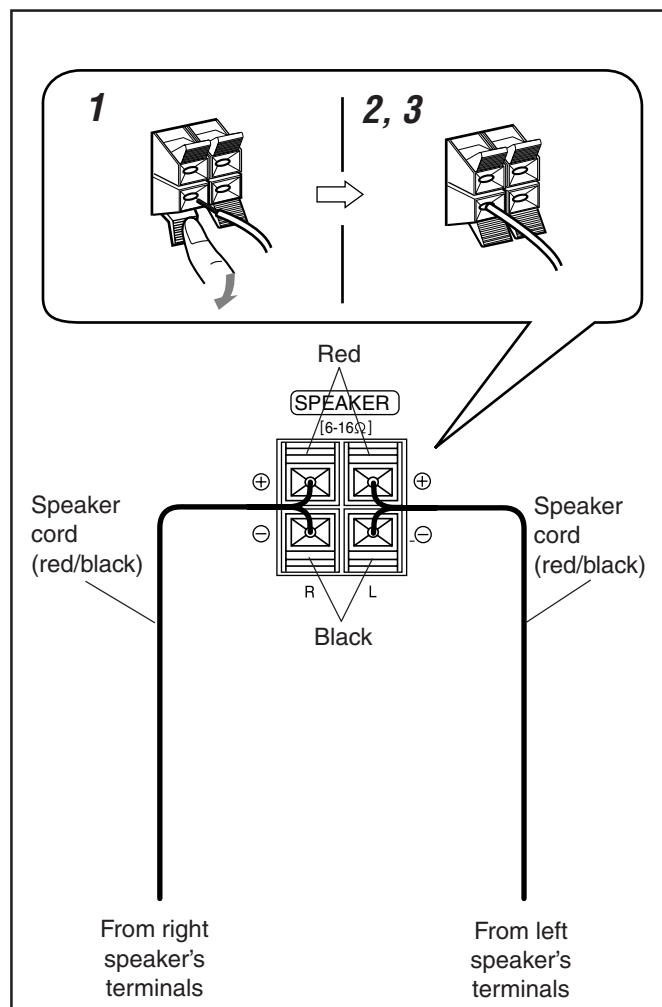
When reception is poor, connect a single vinyl-covered wire to the AM terminal and extend it horizontally. (The AM loop antenna must remain connected.)



#### For better reception of both FM and AM

- 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

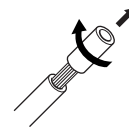


**1** Press and hold the clamp of the speaker terminal on the rear of the unit.

**2** Insert the end of the speaker cord into the terminal.

Match the polarity (colors): Red (+) to red (+) and black (-) to black (-).

- If the wire is covered with vinyl, remove the vinyl by twisting it as shown in the diagram.



**3** Release the finger from the clamp.

#### 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 one speaker terminal.



## Connecting Other Equipment

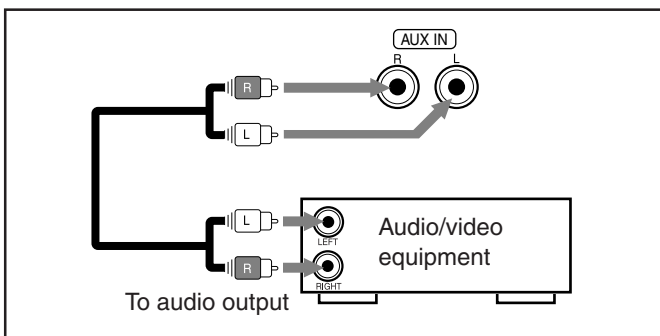
You can connect an audio equipment.



- 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

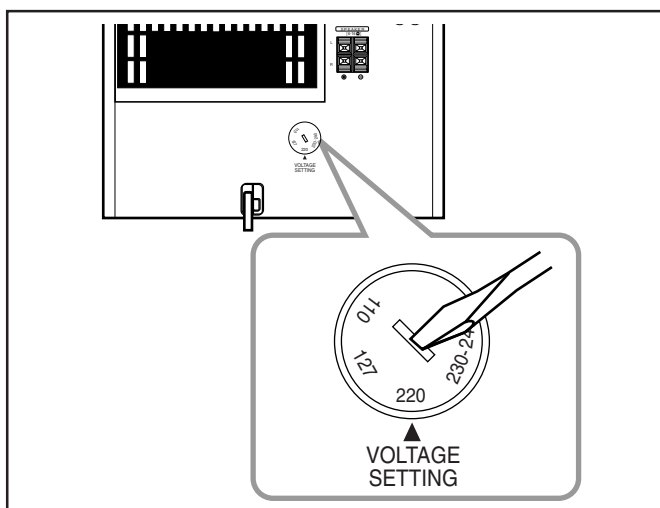
Be sure that the plugs of the audio cords are color coded: White plugs and jacks are for left audio signals, and red ones for right audio signals.



For playing the other equipment through this unit, connect between the audio output jacks on the other equipment and AUX IN jacks by using audio cords (not supplied).

## Adjusting the Voltage Selector

Before plugging in the unit, set the correct voltage for your area with the voltage selector on the rear of the unit.



Use a screw driver to rotate the voltage selector so the voltage number the voltage mark is pointing at is the same as the voltage where you are plugging the this unit. (See the back cover page.)



DO NOT plug in before setting the voltage selector on the rear of the unit and all connection procedures are complete.

**NOW, you can plug in the unit and other connected equipment FINALLY!**

## Canceling the Display Demonstration

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

### On the unit ONLY:

To cancel the display demonstration, press CANCEL/DEMO.



### When you press other buttons

The display demonstration stops temporarily. It will start automatically again (if no operation is done for 2 minutes) until you cancel it by pressing CANCEL/DEMO.

### To start the display demonstration manually

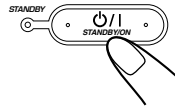
Press and hold CANCEL/DEMO again for more than 2 seconds.



# Common Operations

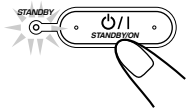
## Turning On or Off the Power

To turn on the unit, press STANDBY/ON so that the STANDBY lamp goes off.



WELCOME

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



GOOD BYE

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.



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

The clock is reset to “-- : --” soon, while the tuner preset stations (see page 12) will be erased in a few days.

## Setting the Clock

Before operating the unit any further, first set the clock built in this unit. You can set the clock whether the unit is on or off.

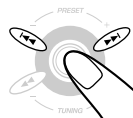
### On the unit ONLY:

**1 Press CLOCK/TIMER.**



The hour digits start flashing on the display.

**2 Press or to adjust the hour, then press SET.**

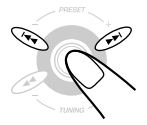


The minute digits start flashing on the display.

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

**3 Press or to adjust the minute, then press SET.**

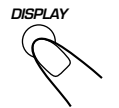
CLOCK OK



### To check the clock time

Press DISPLAY while playing any source.

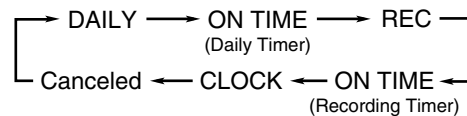
- Each time you press the button, the source indication and the clock time alternate on the display.



### To adjust the clock again

If you have adjusted the clock before, you need to press CLOCK/TIMER repeatedly until “CLOCK” is selected.

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



**If there is a power failure**

The clock loses the setting and is reset to “-- : --.” You need to set the clock again.

## Setting the AM Tuner Interval Spacing

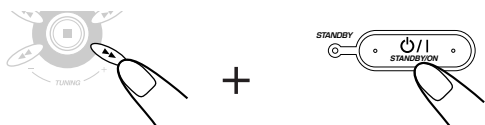
Some countries space AM stations 9 kHz apart, and some countries use 10 kHz spacing.

- This function works only when the unit is turned off.
- 9 kHz spacing is the initial setting.

### On the unit ONLY:

To select 10 kHz, press **⏻/I** STANDBY/ON while holding down **▶▶** when the unit is in standby mode.

“AM - 10” appears on the display.



To select 9 kHz interval again, press **⏻/I** STANDBY/ON while holding down **◀◀** when the unit is in standby mode. “AM - 9” appears on the display.



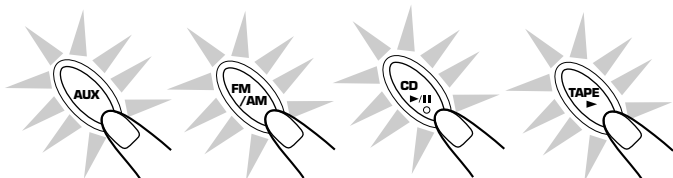
## Selecting the Sources

To listen to the radio, press FM/AM. (See page 12.)

To play back CDs, press CD ▶/II. (See pages 13 – 16.)

To play back tapes, press TAPE ▶. (See page 17.)

To select the external equipment as the source, press AUX.



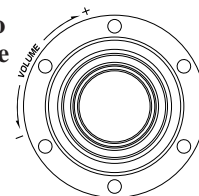
When you press the play button for a particular source (AUX, FM/AM, CD ▶/II, and TAPE ▶), the unit turns on (and the unit starts playing the source if it is ready—COMPU PLAY CONTROL).

## Adjusting the Volume

You can adjust the volume level only while the unit is turned on.

Turn the **VOLUME** control clockwise to increase the volume or counterclockwise to decrease it.

- The volume level can be adjusted in 32 steps (VOL MIN, VOL 1 — VOL 30, and VOL MAX).



VOL 15

When using the remote control, press **VOLUME +** to increase the volume or press **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 is on standby.

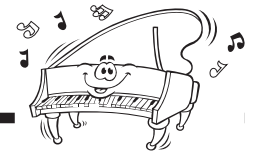
### To turn down the volume level temporarily

Press **FADE MUTING** on the remote control. The volume level gradually decreases to “VOL MIN.”



To restore the sound, press the button again.



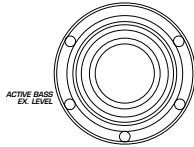


## Reinforcing the Bass Sound

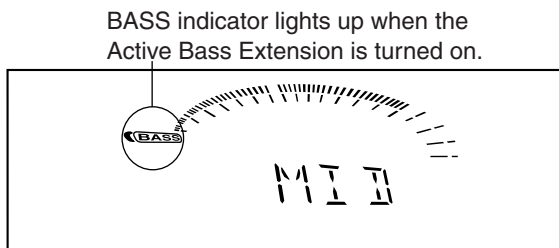
This function only affects the playback sound, not your recording.

The ACTIVE BASS EX. (extension) LEVEL control provided for this unit can maintain the richness and fullness of the bass sound while listening to any source at low volume.

Turn the **ACTIVE BASS EX. LEVEL** control clockwise to increase the bass sound or counterclockwise to decrease it.



- The bass sound level can be adjusted in 3 steps (LOW, MID, HIGH).



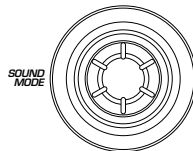
When using the remote control, press ACTIVE BASS EX. LEVEL to adjust the bass sound level. Each time you press the button, the Active Bass Extension level changes as OFF → LOW → MID → HIGH → (back to the beginning).

## Selecting the Sound Modes

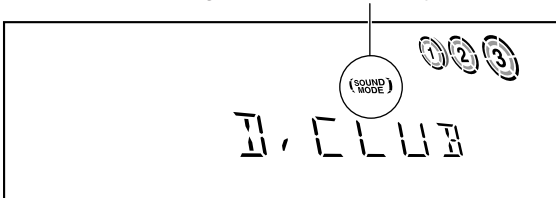
This function only affects the playback sound, not your recording.

You can select one of the 6 preset sound modes (3 surround modes and 3 SEA—Sound Effect Amplifier—modes).

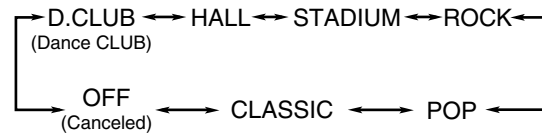
To select the sound modes, turn the **SOUND MODE** control until the sound mode you want appears on the display.



SOUND MODE indicator also lights up on the display



- As you turn the control, the sound modes change as follows:



**Surround modes\*:**

**D.CLUB** : 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.

**OFF** : Cancels the sound mode.

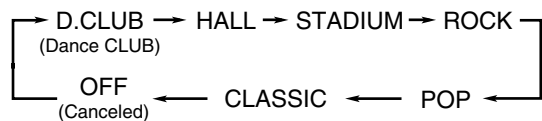
- \* Surround elements are added to the SEA elements to create being-there feeling in your room.

When one of these modes is selected, the **SOUND MODE** indicator lights up as — **(SOUND MODE)**

While one of the SEA modes (SEA elements without surround elements) is selected, the **SOUND MODE** indicator lights up as — **SOUND MODE**

When using the remote control, press **SOUND MODE** to select the sound mode.

- Each time you press the button, the sound modes change as follows:





# Listening to the Radio



Before operating the tuner, make sure you have selected the correct AM Tuner interval spacing (see page 10).

## Tuning in a Station

### 1 Press FM/AM.

The unit automatically turns on and tunes in the previously tuned station (either FM or AM).

- Each time you press the button, the band alternates between FM and AM.



### 2 Start searching for stations.

**On the unit:**

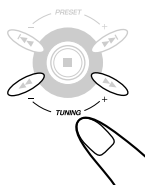
Press and hold TUNING + or TUNING - for more than 1 second.

**On the remote control:**

Press and hold <img alt="left arrow icon" data-bbox="125 383 145 398"/> or <img alt="right arrow icon" data-bbox="145 383 165 398"/> 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 during searching, press TUNING + or TUNING - (or <img alt="left arrow icon" data-bbox="125 515 145 530"/> or <img alt="right arrow icon" data-bbox="145 515 165 530"/> on the remote control).



When you press TUNING + or TUNING - (or <img alt="left arrow icon" data-bbox="125 555 145 570"/> or <img alt="right arrow icon" data-bbox="145 555 165 570"/> on the remote control) briefly and repeatedly

The frequency changes step by step.

### To change the FM reception mode

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



To restore the stereo effect, press FM MODE again so that "STEREO" appears on the display.

In this stereo mode, you can hear stereo sounds when a program is broadcast in stereo.

## Presetting Stations

You can preset 30 FM and 15 AM stations.

In some cases, test frequencies have been already memorized for the tuner since the factory examined the tuner preset function before shipment. This is not a malfunction. You can preset the stations you want into memory by following the presetting method.

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 2 again.

### On the unit ONLY:

1 Tune in the station you want to preset (in this example, of FM 87.50).

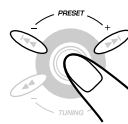
- See "Tuning in a Station".

FM 87.50

2 Press SET.



3 Press PRESET + or PRESET - to select a preset number.



4 Press SET again.

STORED



The tuned station in step 1 is stored in the preset number selected in step 3.

- Storing a new station on a used number erases the previously stored one.



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

The preset stations will be erased in a few days. If this happens, preset the stations again.

## Tuning in a Preset Station

### 1 Press FM/AM.

The unit automatically turns on and tunes in the previously tuned station (either FM or AM).

- Each time you press the button, the band alternates between FM and AM.



### 2 Select a preset number.

**On the unit:**

Press PRESET + or PRESET -.

**On the remote control:**

Press the number buttons.

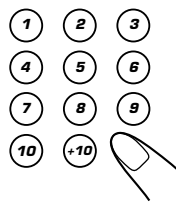
Ex.: For preset number 5, press 5.

For preset number 15, press +10 then 5.

For preset number 20, press +10, then 10.

For preset number 25, press +10, +10, then 5.

For preset number 30, press +10, +10, then 10.



# Playing Back CDs

This unit has been designed to playback the following CDs: Audio CD, CD-R, and 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 when they are already "finalized."

- You can play back your original CD-Rs or CD-RWs recorded in music CD format ONLY. (If CD-RWs have been recorded in different format, erase all the data on CD-RWs completely before re-recording on the discs.)

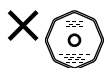


DO NOT play back CD-Rs or CD-RWs recorded the sound files such as MP3.

- 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.

## Important notices:

- In general, you will have the best performance by keeping your CDs and the mechanism clean.
  - Store CDs in their cases, and keep them in cabinets or on shelves.
  - Keep the unit's carousel closed when not in use.
- Continuous use of irregular shaped discs (heart-shape, octagonal, etc.) can damage the disc rotating mechanism.



- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than for regular CDs.

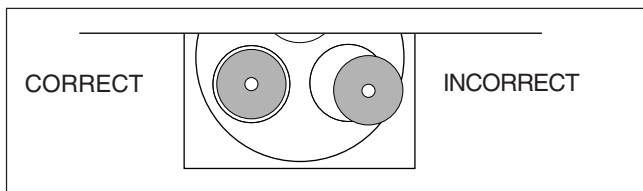
## Loading CDs

### 1 Press $\blacktriangle$ .

The unit automatically turns on and the carousel comes out.



### 2 Place one or two discs correctly on the front recesses of the disc tray, with its label side up.



- When using a CD single (8 cm), place it on the inner recess of the disc tray.

### 3 If you wish to load a third disc, press DISC CHANGE on the unit or DISC SKIP on the remote control.

The disc tray rotates by 120°.



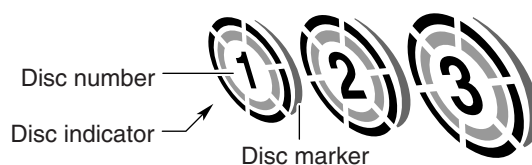
### 4 Press $\blacktriangle$ again.

The carousel closes.



## About the disc indicators

Each disc indicator corresponds to the disc tray of the same number.



- The disc marker lights up for the disc number you have selected.
- The disc indicator rotates while the corresponding CD is being played.
- The disc indicator goes off when the unit has detected that there is no CD on the corresponding disc tray.

## Playing Back CDs—All Disc and One Disc

You can play all loaded CDs continuously—All Disc play, or one selected disc—One Disc play.

### All Disc play

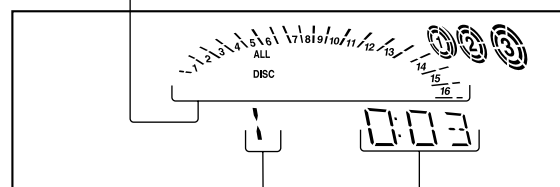
#### 1 Load CDs.

- If the current playing source is not the CD player, press CD  $\blacktriangleright$ /II, then  $\blacksquare$  before going to the next step.

#### 2 Press REPEAT repeatedly so that the ALL DISC indicator lights up on the display.



Track number of the currently playing disc flashes (Track numbers exceeding 16 are not displayed.)



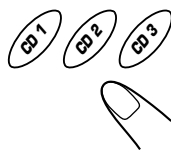
Track number Elapsed playing time

- Each time you press the button, the indication on the display changes as follows:



\* See page 16.

### 3 Press one of the disc number buttons (CD1, CD2 or CD3) for the disc you want to start to play from.



CD play starts from the first track of the selected disc.

- Pressing CD ►/|| instead of the disc number buttons starts playing back if a CD is on the trays.

**To stop during play, press ■.**

**To remove the disc, press ▲.**



#### CD playback sequence

When 3 CDs are loaded on the disc trays, they are played in one of the following sequences.

- When CD1 is pressed : CD 1 ⇒ CD 2 ⇒ CD 3 (then stops)
- When CD2 is pressed : CD 2 ⇒ CD 3 ⇒ CD 1 (then stops)
- When CD3 is pressed : CD 3 ⇒ CD 1 ⇒ CD 2 (then stops)

\* When only 2 CDs are loaded, they are played in the same order, but the disc tray without a CD is skipped.

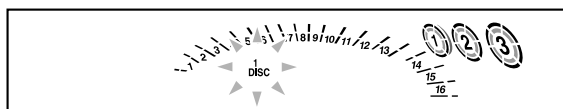
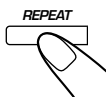
### One Disc play

When 2 or 3 CDs are loaded on the disc trays, you can select one particular disc to be played back.

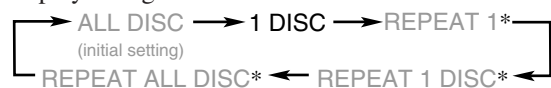
#### 1 Load CDs.

- If the current playing source is not the CD player, press CD ►/||, then ■ before going to the next step.

#### 2 Press REPEAT repeatedly so that the 1 DISC indicator lights up on the display.

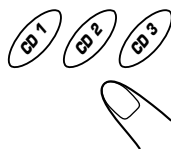


- Each time you press the button, the indication on the display changes as follows:



\* See page 16.

### 3 Press one of the disc number buttons (CD1, CD2 or CD3) you want to listen.



Playback stops when all tracks of the selected disc are played once and resumes to All Disc play.

**To stop during play, press ■.**

**To remove the disc, press ▲.**

**To exit from One Disc play, press REPEAT repeatedly so that ALL DISC indicator lights up on the display.**



The following operations will also cancel the One Disc play and restore All Disc play when—

- Turning off the power,
- Ejecting the carousel, or
- Changing the source to play.

## Basic CD Operations

While playing a CD, you can do the following operations.

### To exchange CDs during playback of another

Press DISC CHANGE to change the CD and the carousel comes out.

DISC CHANGE



If you change CDs during play, the current play will not stop until all CDs you have changed are played.

**To close the carousel, press DISC CHANGE or ▲.**

### To skip to the another CD in the carousel

Press DISC SKIP on the remote control.

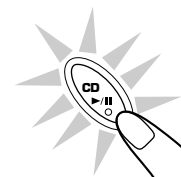
DISC SKIP



### To stop play for a moment

Press CD ►/||.

While pausing, "PAUSE" appears on the display.



**To resume play, press CD ►/|| again.**

### To locate a particular point in a track

During play, press and hold ◀◀ or ▶▶.

- ◀◀: Fast reverses the disc.
- ▶▶: Fast forwards the disc.

When using the remote control, press and hold ◀◀/▶▶ or ▶▶/▶▶.

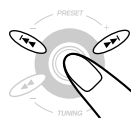


### To go to another track

Press ◀◀ or ▶▶ repeatedly before or during playback.

- ◀◀: Goes back to the beginning of the current or previous tracks.
- ▶▶: Skips to the beginning of the next or succeeding tracks.

When using the remote control, press ◀◀/▶▶ or ▶▶/▶▶ before or during playback.



If you press and hold ◀◀ or ▶▶ on the unit before playing

The track number keeps changing until you release it.

### To go to another track directly using the number buttons

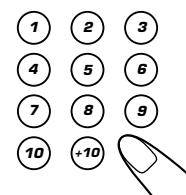
Pressing the number button(s) before or during play allows you to start playing the track number you want.

Ex.: For track number 5, press 5.

For track number 15, press +10, then 5.

For track number 20, press +10, then 10.

For track number 32, press +10, +10, +10, then 2.



## Programming the Playing Order of the Tracks —Program Play

You can arrange the order in which the tracks play before you start playing. **You can program up to 32 tracks.**

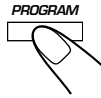
- To use Repeat play (see page 16) for Program play, press REPEAT after starting Program play.

### On the unit ONLY:

#### 1 Load CDs.

- If the current playing source is not the CD player, press CD ►/II, then ■ before going to the next step.

#### 2 Press PROGRAM so that “PROGRAM” appears on the display.



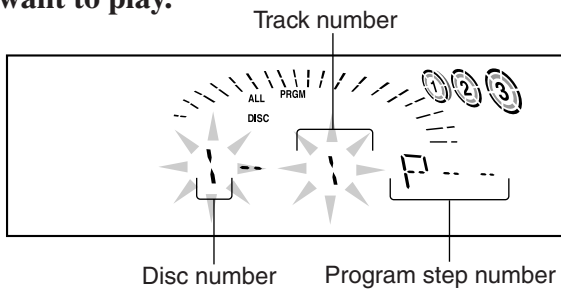
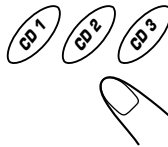
The PRGM (program) indicator also lights up on the display.

- All Disc play is selected automatically. You cannot select One Disc play for Program play.



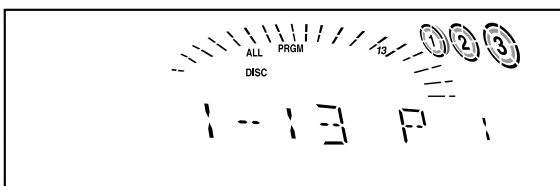
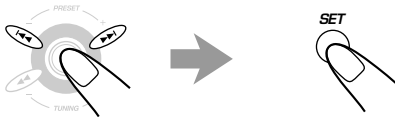
- If a program has been stored in memory, the program is called up.

#### 3 Press one of the disc number buttons (CD1, CD2, and CD3) to select the disc number you want to play.



#### 4 Press ◀◀ or ▶▶ to select the track number, then press SET.

Each time you select a track and press SET, the selected track number is added to the track number indicator.

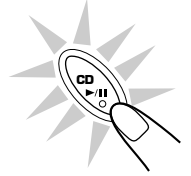


#### 5 Program other tracks you want.

- To program tracks from the same disc, repeat step 4.
- To program tracks from a different disc, repeat steps 3 and 4.

#### 6 Press CD ►/II.

The tracks are played in the order you have programmed.



To stop during play, press ■.

To exit from Program play, press PROGRAM again before or after play so that the unit enters All Disc play. (The program you have made is stored in memory until you turn off the unit, eject the carousel, or erase the program.)

- Program play is also canceled when you press ▲.

#### To modify the program

Before playing, you can erase the last programmed track shown on the display by pressing CANCEL/DEMO.



- Each time you press the button, the last programmed track is erased from the program.

To check the program during play, press ◀◀ (or ▶▶) so that the playing track will change according to the program (or reverse) order. When using the remote control, press ◀◀/◀◀ (or ▶▶/▶▶).

To add tracks in the program before play, simply select the disc numbers and/or track numbers you want to add by following steps 3 and 4 of the programming procedure.

To erase the entire program before or during play, press ■ twice.

- Turning the power off or ejecting the carousel will also erase the stored memory.



If you try to program a 33rd track “FULL” will appear on the display.



If your entry is ignored

You have tried to program a track from an empty tray, or a track number that does not exist on the CD. Such entries are ignored.



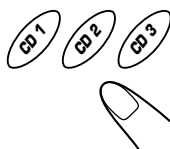
## Playing at Random—Random Play

The tracks of the selected CD will play at random.

- To use Random play, you have to cancel the Program play.

### 1 Load a CD.

### 2 Press one of the disc number buttons (CD1, CD2, and CD3) for the disc you want to play, then press ■.



### 3 Press RANDOM so that “RANDOM” appears on the display.



The RANDOM indicator also lights up on the display.

- Activating Random play cancels Repeat play or All Disc play. (One Disc play is automatically selected.)



- The tracks are played automatically at random. Random play ends when all tracks are played once.

To stop during play, press ■.

To exit from Random play, press RANDOM again during play so that the unit enters All Disc play.

- Random play is also canceled when you press ▲.



If you press |◀◀ or ▶▶|

Skips to the next track selected randomly.

## Repeating Tracks or CDs—Repeat Play

You can have all the CDs, the program or the individual track currently playing repeat as many times as you like.

- Repeat play and Random play cannot be used at the same time.

To repeat play, press REPEAT during or before playing.



- Each time you press the button, Repeat play changes as follows, and the following indicator lights up on the display:



- REPEAT 1** : Repeats one track on one CD.
- REPEAT 1 DISC\*\*** : Repeats all the tracks on one CD.
- REPEAT ALL DISC** : Repeats all the tracks on all the CDs, or all the tracks on the program.

\* See pages 13 and 14.

\*\* REPEAT 1 DISC is not used for Program play.

To cancel Repeat play, press REPEAT repeatedly until the REPEAT indicator (REPEAT 1, REPEAT 1 DISC or REPEAT ALL DISC) goes off from the display.

- Repeat play is also canceled when you press ▲.

## Prohibiting Disc Ejection—Tray Lock

You can prohibit CD ejection from the unit and can lock the carrousel.

- This operation is possible only while the unit is on with CD selected as the source.

### On the unit ONLY:

To prohibit disc ejection, press ▲ for the carrousel while holding ■.

“LOCKED” appears for a while, and the carrousel is locked.

To cancel the prohibition and unlock the carrousel, press ▲ for the carrousel while holding ■.

“UNLOCKED” appears for a while, and the carrousel is unlocked.

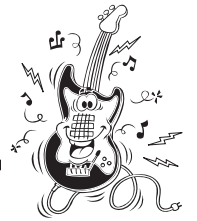


If you try to eject CDs

“LOCKED” appears to inform you that the Tray Lock is in use.

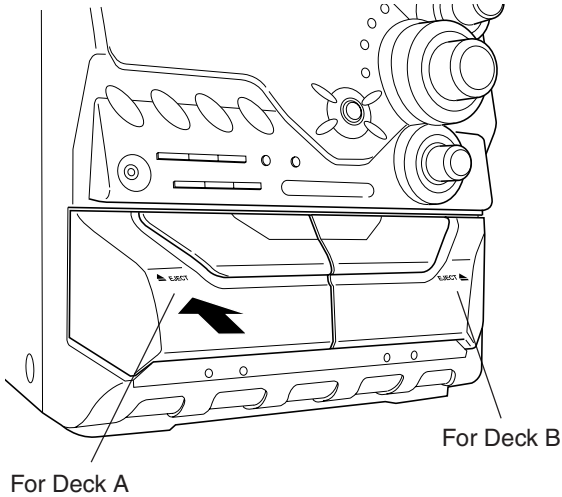


# Playing Back Tapes



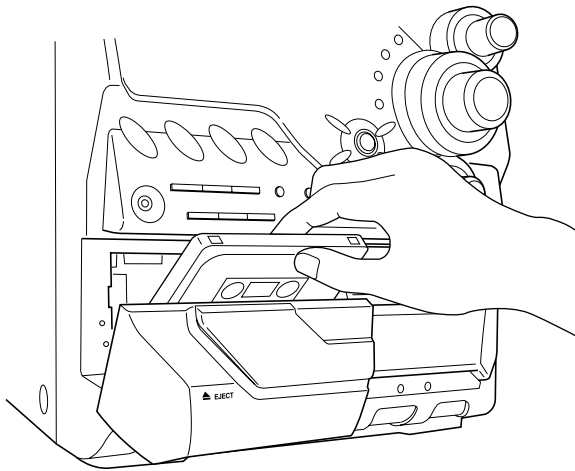
## Playing Back a Tape

- 1** Press EJECT (▲) for the deck you want to use.



- 2** Put a cassette in, with the exposed part of the tape down and the side you want to play facing front.

- You can play back only type I tapes.



- 3** Close the cassette holder gently.

If you put cassettes in both decks A and B, the last deck which you have put a cassette into is selected.

To operate the other deck, press TAPE A or TAPE B (or TAPE A/B on the remote control).

- 4** Press TAPE ►.

The tape play starts and the tape running indicator (►) starts flashing slowly.



When the tape plays to the end, the deck automatically stops.

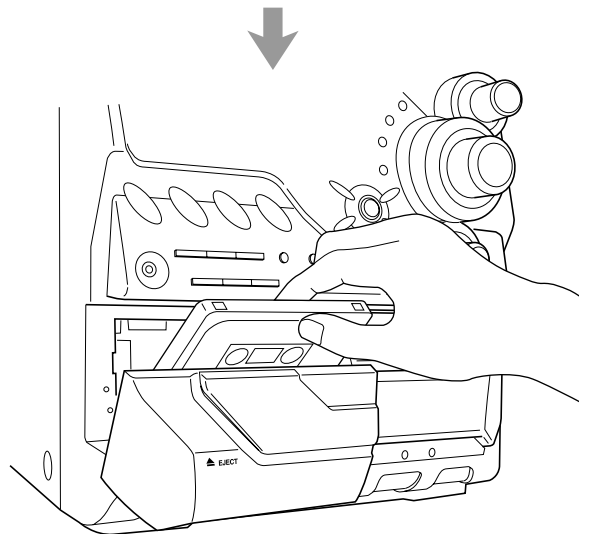
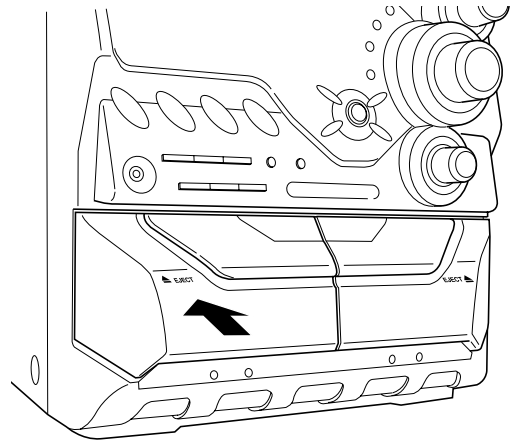
To stop during play, press ■.

To operate the other deck, press TAPE A or TAPE B (or TAPE A/B on the remote control), then TAPE ►.

To fast-forward the tape, press ►► (or ►►/►► on the remote control). The tape running indicator (►) starts flashing quickly.

To rewind the tape, press ◀◀ (or ◀◀/◀◀ on the remote control). The tape running indicator (◀) starts flashing quickly.

To remove the cassette, press ▲ EJECT for deck A or EJECT ▲ for deck B.



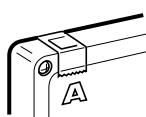
The use of the C-120 or thinner tape is not recommended, since characteristic deterioration may occur and this tape easily jams in the pinch-rollers and the capstans.

## IMPORTANT:

- It may be unlawful to record or playback copyrighted material without the consent of the copyright owner.
- The recording level is automatically set correctly, so it is not affected by the VOLUME, the ACTIVE BASS EX. LEVEL, and the SOUND MODE controls. Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
- While recording, you can hear sound modes through the speakers or headphones. However, the sound is recorded without these effects (see page 11).
- If recordings you have made have excessive noise or static, the unit may be too close to a TV. Place the unit away from the TV.
- You can use type I tape for recording.

## To protect your recording

Cassettes have two small tabs on the back to protect unexpected erasure or re-recording.



To protect your recording, remove these tabs.

To re-record on a protected tape, cover the holes with adhesive tape.

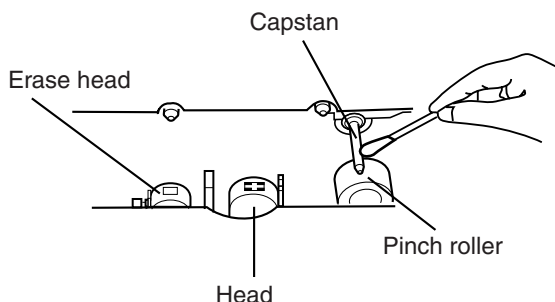
## To keep the best recording and playback sound quality

If the heads, capstans, and pinch rollers of the cassette decks become dirty, the following will occur:

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

## To clean the head, capstan, and pinch roller

Use a cotton swab moistened with alcohol.



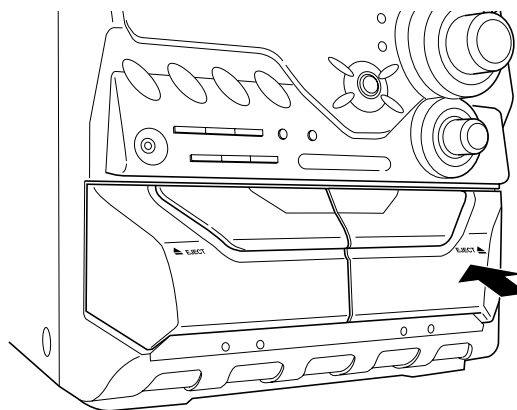
## To demagnetize the head

Turn off the unit, and use a head demagnetizer (available at electronics and audio shops).

## Recording a Tape on Deck B

### On the unit ONLY:

#### 1 Press EJECT for deck B.



#### 2 Put a recordable cassette in, with the exposed part of the tape down and the side you want to record facing front.

#### 3 Close the cassette holder gently.


#### 4 Start playing the source—FM, AM, CD player or auxiliary equipment connected to AUX IN jacks.

- For duplicating tapes, see “Dubbing Tapes” on page 19.
- For recording from CD, see “CD Synchronized Recording” on page 19.

#### 5 Press REC START/STOP.

The REC (recording) indicator lights up on the display and recording starts.



To stop during recording, press REC START/STOP again or .

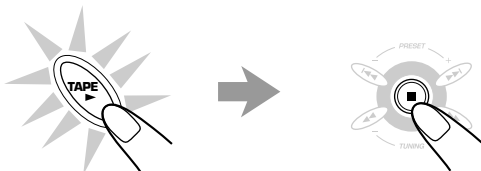
To remove the cassette, press EJECT  for deck B.



## Dubbing Tapes

### On the unit ONLY:

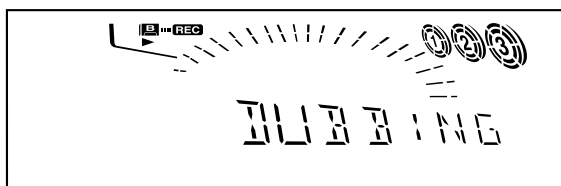
**1** Press **TAPE** ►, then ■.



**2** Put the source cassette in deck A, and a recordable cassette into deck B.

**3** Press **DUBBING**.

Dubbing starts.  
“DUBBING” appears, and the REC (recording) indicator lights up on the display.



To stop during dubbing, press **REC START/STOP** or ■.

To remove the cassette, press ▲ **EJECT** for deck A and **EJECT** ▲ for deck B.

## CD Synchronized Recording

You can easily record a CD onto a tape.

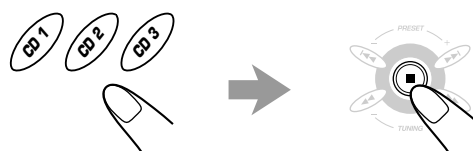
- You can also record the tracks in order you have made the program.

### On the unit ONLY:

**1** Put a recordable cassette into deck B.

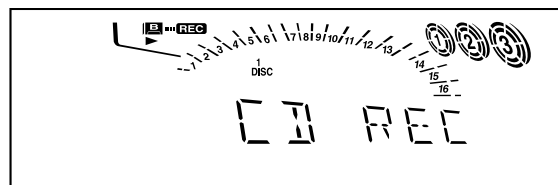
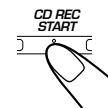
**2** Place a disc correctly on the recess of the disc tray, with its label side up.

**3** Press one of the disc number buttons (**CD1**, **CD2**, and **CD3**) to select the disc, then ■.



**4** Press **CD REC START**.

“CD REC” appears, and the REC (recording) indicator lights up on the display.



Deck B starts recording and the CD player starts playing.  
When the recording is done, the CD player and deck B stop.

To stop during CD Synchronized Recording, press **REC START/STOP** or ■.

To remove the cassette, press **EJECT** ▲ for deck B.



# Using the Microphones



You can enjoy singing along (Karaoke) and microphone mixing.

## IMPORTANT:

- Always set the MIC LEVEL to MIN when connecting or disconnecting the microphone.
- When you do not use the microphone, keep the microphones unconnected.

If howling or squealing (feedback) occurs while using the microphone, take the following actions to prevent these noises.

- Adjust the MIC LEVEL and VOLUME controls.
- Avoid pointing the microphone towards the speakers.

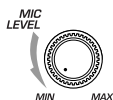
## Singing Along—Karaoke

### Vocal Masking

Vocal Masking reduces the lead vocal of the playing source and allows you to replace it by singing into the microphone as the music plays.

- This function cannot be used for multiplex discs or tapes.

#### 1 Turn MIC LEVEL to MIN.



#### 2 Connect the microphone (not supplied) by plugging it into the MIC jack.

The karaoke indicator (🎤) lights up on the display.

#### 3 Start playing the source—CD, tape or other connected component.

#### 4 Press KARAOKE on the remote control repeatedly.

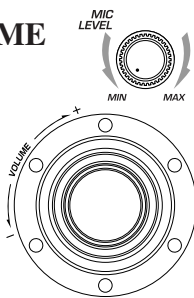
Each time you press the button, Vocal Masking turns on (V.MASK) and off (OFF).

- V.MASK: Reduces the vocals.  
OFF: Cancels Vocal Masking (normal stereo playback).

#### 5 Turn MIC LEVEL and VOLUME controls as you sing into the microphone.

When you finish singing, cancel the Karaoke function by pressing KARAOKE.

- By pressing REC START/STOP, you can record your singing along. (For more details, see page 18.)



To stop during recording, press REC START/STOP again or ■.



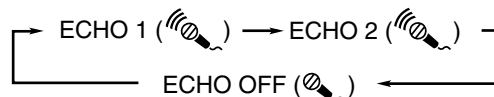
If you use the following sources as the playing source for Vocal Masking, you cannot get the satisfactory results

- Radio programs — a radio signal is not as reliable as the signals coming from a tape or CD.
- Monaural sources.
- Poorly dubbed tapes.
- Sources recorded with duets, strong echo, a chorus, or only a few instruments.

### To apply an echo to your voice

Press ECHO on the remote control so that the echo (🎤) indicator lights up on the display.

Each time you press the button, the echo level changes as follows:

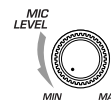


ECHO 2 applies stronger echo effect to your voice.

### Microphone Mixing

When you use microphone with any playback source, follow the procedure below.

#### 1 Turn MIC LEVEL to MIN.

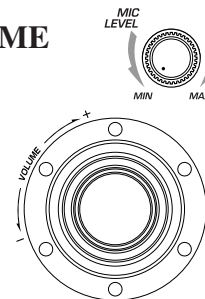


#### 2 Connect the microphone (not supplied) by plugging it into the MIC jack.

#### 3 Start playing the source—CD, tape or other connected component.

#### 4 Turn MIC LEVEL and VOLUME controls as you sing into the microphone.

- By pressing REC START/STOP, you can record your singing along. (For more details, see page 18.)



To stop during recording, press REC START/STOP again or ■.

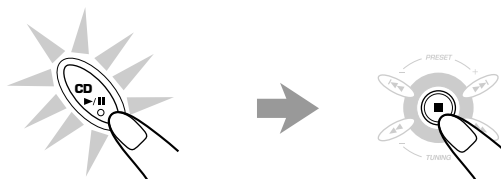
### To use microphone only

Without any background sound, you can use your microphone and record it.

#### 1 Connect the microphone.

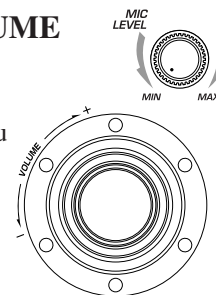
#### 2 Press CD ►/II, then ■.

No background sound will be heard.



#### 3 Turn MIC LEVEL and VOLUME controls as you sing into the microphone.

- By pressing REC START/STOP, you can record your singing. (For more details, see page 18.)



To stop during recording, press REC START/STOP again or ■.

# Using the Timers

There are three timers available—Daily Timer, Recording Timer, and Sleep Timer.

Before using the timers, you need to set the clock built in the unit. (See “Setting the Clock” on page 9.)

## Using Daily Timer

With Daily Timer, you can wake to your favorite music or radio program. You can set the timer whether the unit is on or off.

### How Daily Timer actually works

The unit automatically turns on, set the volume level to the preset level, and starts playing the specified source when the on-time comes (the ☺ indicator flashes while the timer is operating). Then, when the off-time comes, the unit automatically turns off (stands by).

Daily Timer works every day unless you cancel it.

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- If you have made a mistake while setting timer, press CANCEL/DEMO. (However, this does not always work. If CANCEL/DEMO does not work, press CLOCK/TIMER repeatedly and start from step 1 again.)

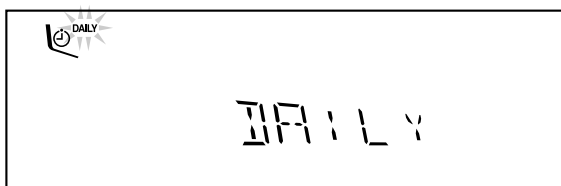
### Before you start...

- *When using a CD as the source to play:*  
—Make sure there is a CD on the currently selected disc number tray.
- *When using a tape as the source to play:*  
—Make sure that a tape is in the deck whose deck indicator (A or B) is lit on the display.
- *When using the external component as the source to play:*  
—Set the timer equipped with the external component at the same time.

### On the unit ONLY:

#### 1 Press CLOCK/TIMER repeatedly until “DAILY” appears on the display.

☺ indicator lights up and the DAILY (daily timer) indicator starts flashing on the display.

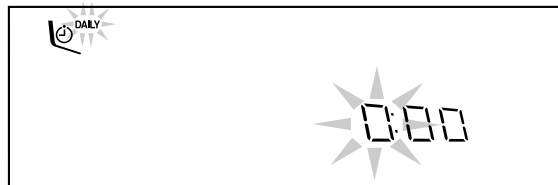


- Each time you press the button, the clock/timer setting modes change as follows:



#### 2 Press CLOCK/TIMER again.

“ON TIME” appears for 2 seconds, then the unit enters on-time setting mode.



#### 3 Set the on-time you want the unit to turn on.

- 1) Press ◀◀ or ▶▶ to set the hour, then press SET.
  - 2) Press ◀◀ or ▶▶ to set the minute, then press SET.
- “OFF TIME” appears for 2 seconds, then the unit enters off-time setting mode.

#### 4 Set the off-time you want the unit to turn off (on standby).

- 1) Press ◀◀ or ▶▶ to set the hour, then press SET.
  - 2) Press ◀◀ or ▶▶ to set the minute, then press SET.
- The unit enters source selecting mode.



#### 5 Press ◀◀ or ▶▶ to select the source to play, then press SET.

- Each time you press ◀◀ or ▶▶, the source changes as follows:



TUNER FM : tunes in to a specified preset FM station.

→ go to step 6.

TUNER AM : tunes in to a specified preset AM station.

→ go to step 6.

CD : plays a disc from the first track.

→ go to step 7.

TAPE : plays a tape in deck A or B.

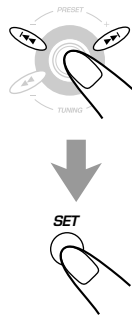
→ go to step 7.

AUX : plays an external source.

→ go to step 7.

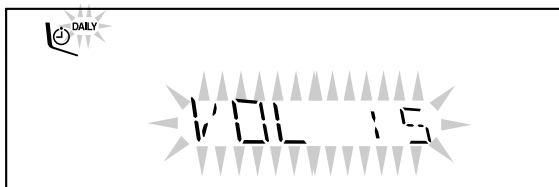
## 6 Select the preset station number.

Press ◀◀ or ▶▶ to select the preset station number, then press SET.  
The unit enters volume setting mode.



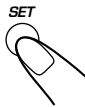
## 7 Press ◀◀ or ▶▶ to set the volume level.

You can select the volume level from VOL MIN, VOL 1 — VOL30, and VOL MAX.

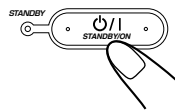


## 8 Press SET to complete the Daily Timer setting.

The DAILY (daily timer) indicator stops flashing and remains lit. The settings you have done are shown on the display in sequence for your confirmation.



## 9 Press ⏻/STANDBY/ON to turn off the unit (on standby) if you have set the Daily Timer with the unit turned on.



If the unit is turned on when the timer-on time comes Daily Timer does not work.

### To turn on or off Daily Timer after its setting is done

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



2 To turn off the Daily Timer, press CANCEL/DEMO.

The DAILY (daily timer) indicator goes off from the display ("OFF" appears for a while). The Daily Timer is canceled, but the setting for the Daily Timer remains in memory until you change it.



To turn on the Daily Timer, press SET.

The DAILY (daily timer) indicator lights up on the display. The settings you have done are shown on the display in sequence for your confirmation.



## Using Recording Timer

With Recording Timer, you can make a tape of a radio broadcast automatically. You can set the timer whether the unit is on or off.

### How Recording Timer actually works

The unit automatically turns on, tunes into the specified station, sets the volume level to "VOL MIN," and starts recording when the on-time comes (the Ⓢ indicator flashes while the timer is operating). Then, when the off-time comes, the unit automatically turns off (stands by).

Recording Timer works only once, but 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 2 again.
- If you have made a mistake while setting the timer, press CANCEL/DEMO. (However, this does not always work. If CANCEL/DEMO does not work, press CLOCK/TIMER repeatedly and start from step 2 again.)

### On the unit ONLY:

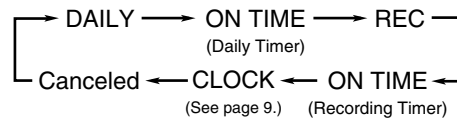
1 Put a recordable cassette into deck B.

2 Press CLOCK/TIMER repeatedly until "REC" appears on the display.

Ⓢ indicator lights up and the REC (recording timer) indicator starts flashing on the display.

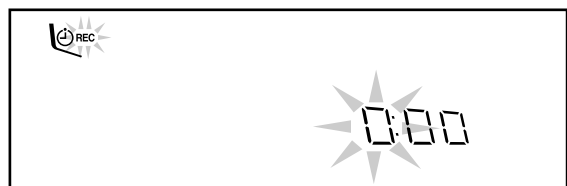


- Each time you press the button, the clock/timer setting modes change as follows:



3 Press CLOCK/TIMER again.

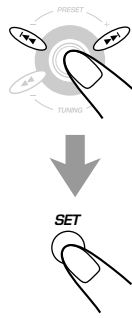
"ON TIME" appears for 2 seconds, then the unit enters on-time setting mode.





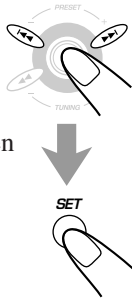
#### 4 Set the on-time you want the unit to turn on.

- 1) Press ◀◀ or ▶▶ to set the hour, then press SET.
- 2) Press ◀◀ or ▶▶ to set the minute, then press SET.  
“OFF TIME” appears for 2 seconds, then the unit enters off-time setting mode.



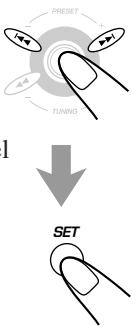
#### 5 Set the off-time you want the unit to turn off (on standby).

- 1) Press ◀◀ or ▶▶ to set the hour, then press SET.
- 2) Press ◀◀ or ▶▶ to set the minute, then press SET.  
The unit enters preset station selecting mode.

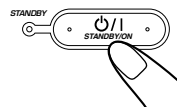


#### 6 Select the preset station.

- 1) Press ◀◀ or ▶▶ to select the band (“TUNER FM” or “TUNER AM”), then press SET.
- 2) Press ◀◀ or ▶▶ to select a preset channel number, then press SET.  
The REC (recording timer) indicator stops flashing and remains lit. The settings you have done are shown on the display in sequence for your confirmation.



#### 7 Press ⏻/STANDBY/ON to turn off the unit (on standby) if necessary.



#### About the recording source

If you change the source while recording, the recording also changes.

#### To turn on or off Recording Timer after its setting is done

- 1 Press CLOCK/TIMER repeatedly until “REC” appears on the display.



- 2 To turn off the Recording Timer, press CANCEL/DEMO.

The REC (recording timer) indicator goes off from the display (“OFF” appears for a while). The Recording Timer is canceled, but the setting for the Recording Timer remains in memory until you change it.



**To turn on the Recording Timer, press SET.**  
The REC (recording timer) indicator lights up on the display. The settings you have done are shown on the display in sequence for your confirmation.



## Using Sleep Timer

With Sleep Timer, you can fall asleep to music. You can set Sleep Timer when the unit is turned on.

### How Sleep Timer actually works

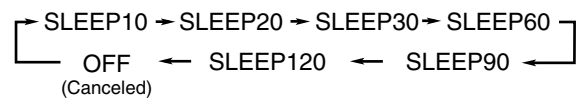
The unit automatically turns off after the specified time length passes.

### On the remote control ONLY:

#### 1 Press SLEEP.

The time length until the shut-off time appears and the SLEEP indicator starts flashing on the display.

- Each time you press the button, the time length changes as follows:



#### 2 Wait for about 3 seconds after specifying the time length.

The SLEEP indicator stops flashing and remains lit.

**To check the remaining time until the shut-off time,** press SLEEP once so that the remaining time until the shut-off time appears for about 3 seconds.

**To change the shut-off time,** press SLEEP repeatedly until the desired time length appears on the display.

**To cancel the setting,** press SLEEP repeatedly until “OFF” appears on the display so that the SLEEP indicator goes off from the display.

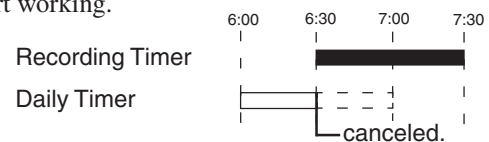
- Sleep Timer is also canceled when you turn off the unit.

## Timer Priority

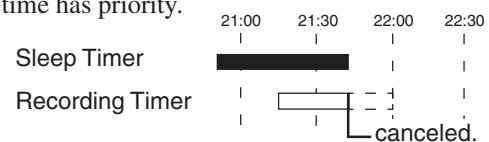
Since each timer can be set separately, you may wonder what happens if the setting for these timers overlaps. Here are some examples.

- **Recording Timer has priority over Daily Timer.**

If Recording Timer is set to come on while Daily Timer is operating, Daily Timer is canceled and Recording Timer start working.



- If Sleep Timer overlaps with another timer (either Daily Timer or Recording Timer), a timer with the earlier shut-off time has priority.



**When using the Recording Timer and Sleep Timer at the same time, pay special attention to the shut-off time.**

# Maintenance



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

## 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.

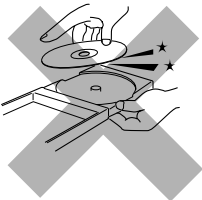
### • Avoid the following since they may cause damage to the unit.

- 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.

## Handling discs



- Remove the disc from its case by holding it at the edge while pressing the center hole lightly.
- Do not touch the shiny surface of the disc, or bend the disc.
- Put the disc back in its case after use to prevent warping.



- Be careful not to scratch the surface of the disc when placing it back in its case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.



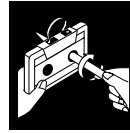
### To clean the disc

Wipe the disc with a soft cloth in a straight line from center to edge.

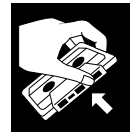


DO NOT use any solvent—such as conventional record cleaner, spray, thinner, or benzine—to clean the disc.

## Handling cassette tapes



- If the tape is loose in its cassette, take up the slack by inserting a pencil in one of the reels and rotating.
- If the tape is loose, it may get stretched, cut, or caught in the cassette.



- Be careful not to touch the tape surface.



- Avoid the following places to store the tape:

- In dusty places
- In direct sunlight or heat
- In moist areas
- Near a magnet



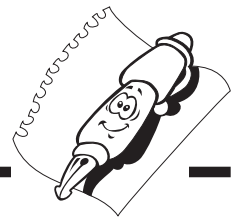
# Troubleshooting



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 display demonstration.	Other buttons are pressed to cancel the display demonstration.	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.)
Hard to listen to broadcasts because of noise.	<ul style="list-style-type: none"> <li>Antennas are disconnected.</li> <li>The AM loop antenna is too close to the unit.</li> <li>The FM antenna is not properly extended and positioned.</li> </ul>	<ul style="list-style-type: none"> <li>Reconnect the antennas correctly and securely.</li> <li>Change the position and direction of the AM loop antenna.</li> <li>Extend the FM antenna at the best position.</li> </ul>
The disc sound is discontinuous.	The disc is scratched or dirty.	Clean or replace the disc. (See page 24.)
The carousel does not open or close.	<ul style="list-style-type: none"> <li>The AC power cord is not plugged in.</li> <li>The carousel is locked.</li> </ul>	<ul style="list-style-type: none"> <li>Plug the AC power cord.</li> <li>Unlock the carousel. (See page 16.)</li> </ul>
The disc does not play.	The disc is placed upside down.	Place the disc with the label side up.
The cassette holders cannot be opened.	Power supply from the AC power cord has been cut off while the tape was running.	Turn on the unit.
Impossible to record.	Small tabs on the back of the cassette are removed.	Cover the holes with adhesive tape.
Stereo effect is lost.	Vocal Masking is activated.	Cancel the Vocal Masking. (See page 20.)
Operations are disabled.	The built-in microprocessor may malfunction due to external electrical interference.	Unplug the AC power cord and then plug it back in.
Unable to operate the unit from the remote control.	<ul style="list-style-type: none"> <li>The path between the remote control and the remote sensor on the unit is blocked.</li> <li>The batteries are exhausted.</li> </ul>	<ul style="list-style-type: none"> <li>Remove the obstruction.</li> <li>Replace the batteries.</li> </ul>



## Amplifier section — CA-MXK50

Output Power:

**100 W per channel, min. RMS, driven into 6  $\Omega$  at 1 kHz with no more than 10% total harmonic distortion.**

Audio input sensitivity/Impedance (at 1 kHz)

AUX: 400 mV/50 k $\Omega$

MIC: 5 mV/5 k $\Omega$

Speakers/Impedance: 6  $\Omega$  – 16  $\Omega$

## Tuner

FM tuning range: 87.50 MHz – 108.00 MHz

AM tuning range: 531 kHz – 1 602 kHz  
(at 9 kHz intervals)

530 kHz – 1 710 kHz  
(at 10 kHz intervals)

## CD player

CD Capacity: 3 CDs

Dynamic range: 85 dB

Signal-to-noise ratio: 85 dB

## Cassette deck

Frequency response

Normal (type I): 50 Hz — 14 000 Hz

Wow and flutter: 0.15% (WRMS)

## General

Power requirement: AC 110 V / AC 127 V / AC 220 V /  
AC 230 V — AC 240 V  $\sim$ , adjustable  
with the voltage selector, 50 Hz / 60 Hz

Power consumption: 120 W (at operation)  
17 W (on standby)

Dimensions (approx.): 270 mm x 317 mm x 449 mm (W/H/D)

Mass (approx.): 8.8 kg

## Supplied accessories

See page 6.

## Speaker section — SP-MXK50

Type: 3-way bass-reflex type

Speaker units: Woofer: 13.5 cm cone x1

Midrange: 5 cm cone x1

Tweeter: 2 cm dome x1

Power handling capacity: 100 W

Impedance: 6  $\Omega$

Frequency range: 32 Hz — 20 000 Hz

Sound pressure level: 81 dB/W•m

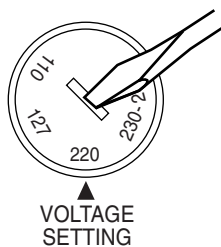
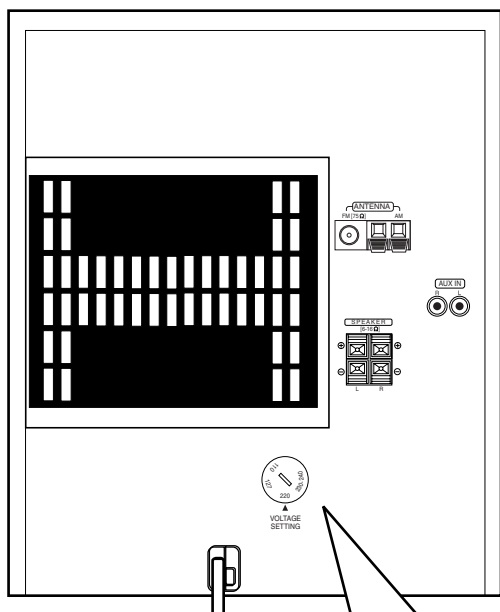
Dimensions (approx.): 228 mm x 318 mm x 255 mm (W/H/D)

Mass (approx.): 3.5 kg each

Design and specifications are subject to change without notice.

## Mains (AC) Line Instruction (not applicable for Europe, U.S.A., Canada, Australia, and U.K.)

主 (AC) 电源线路说明 (不适用于欧洲、美国、加拿大、澳洲及英国型号)



### IMPORTANT for mains (AC) line

BEFORE PLUGGING IN, do check that your mains (AC) line voltage corresponds with the position of the voltage selector switch provided on the outside of this equipment and, if different, reset the voltage selector switch, to prevent from a damage or risk of fire/electric shock.

### 有关主 (AC) 电源线路的重要事项

接插电源以前, 务请检查当地的主 (AC) 电源线路电压是否和位于本机外面的电压选择开关设定的位置一致。如果不一致, 即重新设定电压选择开关使符合当地电压, 以免损坏机器或引起火灾/触电的危险。

# JVC

VICTOR COMPANY OF JAPAN, LIMITED



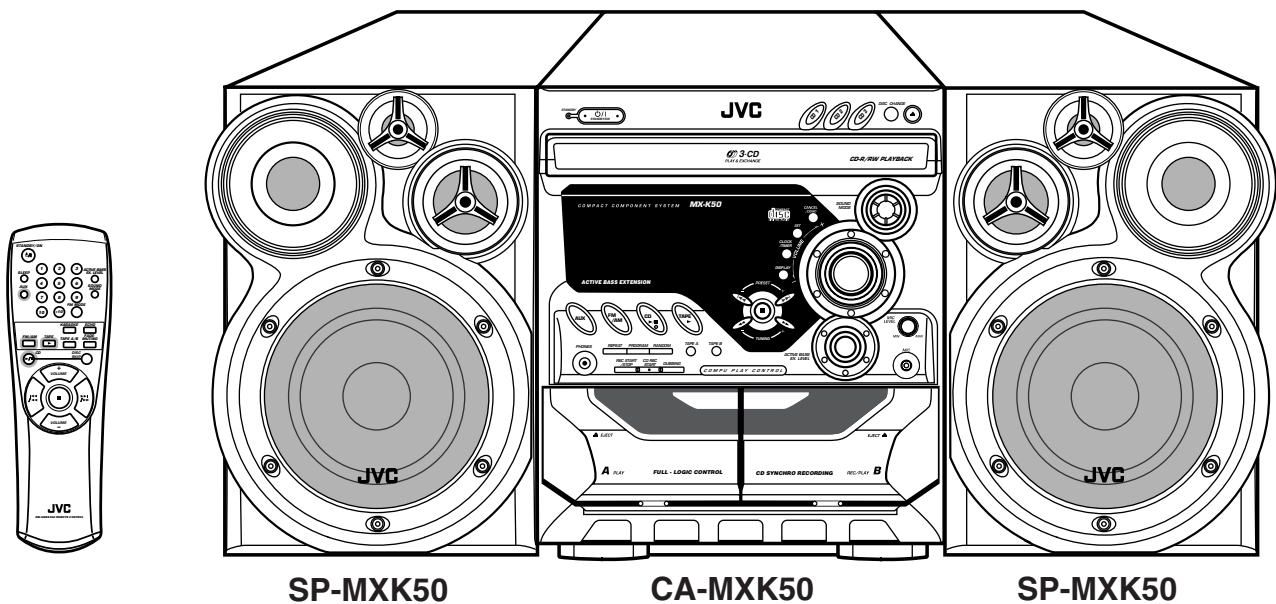
# JVC



## COMPACT COMPONENT SYSTEM SISTEMAS DE COMPONENTES COMPACTOS SISTEMA DE COMPONENTE COMPACTO

# MX-K50

Consists of CA-MXK50 and SP-MXK50.  
Consta del CA-MXK50 el SP-MXK50  
Consta do CA-MXK50 e SP-MXK50



COMPACT  
**disc**  
DIGITAL AUDIO

## INSTRUCTIONS MANUAL DE INSTRUCCIONES INSTRUÇÕES

### 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. \_\_\_\_\_

LVT0903 -004A  
[UW]


## **Warning, Cautions and Others** **Avisos, precauciones y otras notas** **Advertências, precauções e outras notas**

---


### **Caution — STANDBY/ON button!**

Disconnect the mains plug to shut the power off completely. The  STANDBY/ON switch in any position does not disconnect the mains line. The power can be remote controlled.

### **Precaución — Interruptor STANDBY/ON!**

Desconectar el cable de alimentación para desactivar la alimentación totalmente. Cualquier que sea la posición de ajuste del interruptor  STANDBY/ON, la alimentación no es cortada completamente. La alimentación puede ser controlada remotamente.

### **Precaução — Interruptor STANDBY/ON!**

Desconectar o cabo de alimentação para desligar a alimentação por completo. Qualquer que seja a posição de ajuste do interruptor  STANDBY/ON, a alimentação não é completamente cortada. A alimentação pode ser controlada remotamente.

**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.

**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.
- Do 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.

**PRECAUCIÓN**

Para reducir riesgos de choques eléctricos, incendio, etc.:

1. No extraiga los tornillos, las cubiertas ni la caja.
2. No exponga este aparato a la lluvia o a la humedad.

**PRECAUCIÓN**

- No obstruya las rendijas o los orificios de ventilación. (Si las rendijas o los orificios de ventilación quedan tapados con un periódico, un trozo de tela, etc., no se podrá disipar el calor).
- No ponga sobre el aparato ninguna llama al descubierto, como velas encendidas.
- Cuando tenga que descartar las pilas, tenga en cuenta los problemas ambientales y observe estrictamente los reglamentos o las leyes locales sobre disposición de las pilas.
- No exponga este aparato a la lluvia, humedad, goteos o salpicaduras. Tampoco ponga recipientes conteniendo líquidos, como floreros, encima del aparato.

**PRECAUÇÃO**

Para reduzir riscos de choques elétricos, incêndio, etc.:

1. Não remova parafusos e tampas ou desmonte a caixa.
2. Não exponha este aparelho à chuva nem à umidade.

**AVISO**

- Não obstrua as aberturas e orifícios de ventilação. (Se os orifícios ou aberturas de ventilação estiverem obstruídos por qualquer papel ou tecido, não haverá circulação do ar quente.)
- Não coloque nenhum objeto com chamas, como velas acesas, sobre o aparelho.
- Ao descartar as baterias, leve em consideração os problemas que possam ser causados ao meio ambiente e os regulamentos e leis locais e governamentais sobre recolhimento dessas baterias devem ser rigorosamente seguidos.
- Não exponha este aparelho à chuva, umidade, pingos ou esguichos de água, nem coloque em cima do mesmo qualquer tipo de recipiente que contenha líquidos, como por exemplo vasos.

**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.

**Precaución: el aparato debe estar bien ventilado**

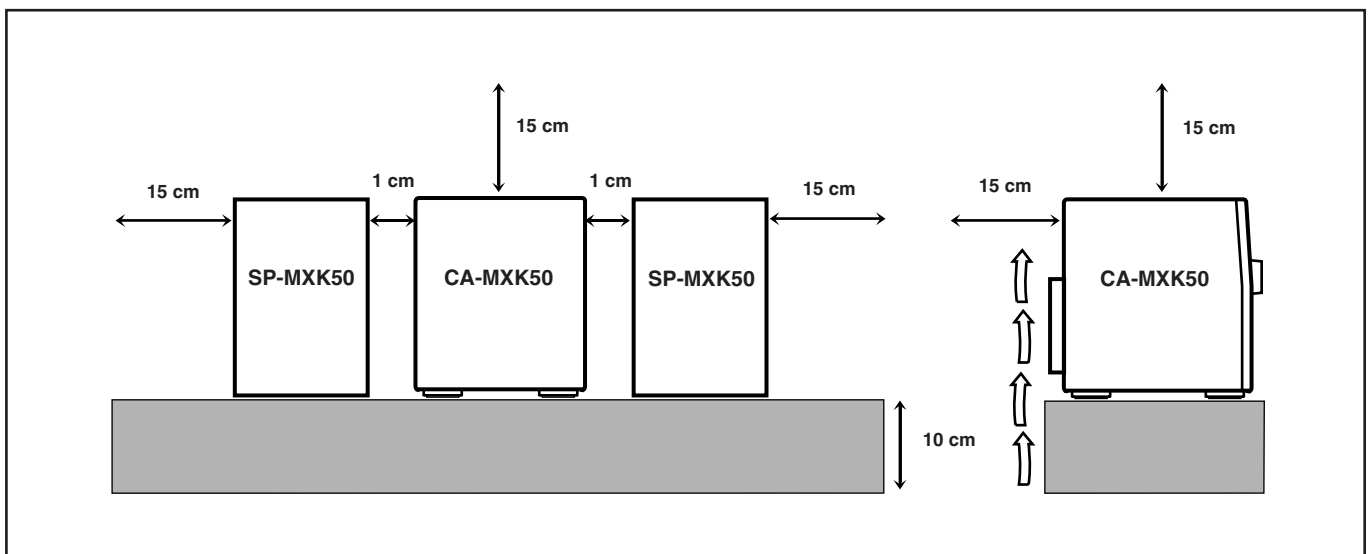
Para evitar posibles riesgos de descargas eléctricas e incendios y prevenir cualquier posible daño, coloque el aparato del modo siguiente:

- 1 Parte delantera: No ponga nada delante, deje el espacio libre.
- 2 Laterales/ parte superior/ parte trasera: No se debería colocar nada en las áreas y las distancias que se detallan a continuación.
- 3 Parte inferior: Coloque el aparato sobre una superficie recta. Debe haber buena circulación de aire; para ello, coloque el aparato sobre una base a una altura mínima de 10 cm.

**Precaução: Ventilação adequada**

Para evitar riscos de choques elétricos e incêndios, e prevenir avarias, instale o aparelho como segue:

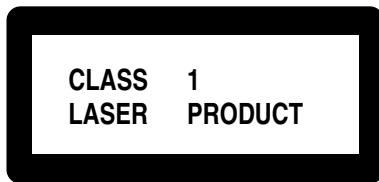
- 1 Parte frontal: Sem obstruções e espaços abertos.
- 2 Partes laterais/Tampa/Posterior: Nenhuma obstrução deverá ser colocada entre as áreas cujas dimensões são indicadas abaixo.
- 3 Parte inferior: Instale-o sobre uma superfície plana. Deverá ser mantido espaço suficiente para a ventilação se este for instalado numa posição que tenha uma altura de 10 cm ou mais.



**IMPORTANT FOR LASER PRODUCTS**  
**IMPORTANTE PARA PRODUCTOS LÁSER**  
**IMPOTANTE PARA PRODUCTOS LASER**

**REPRODUCTION OF LABELS / REPRODUCCIÓN DE ETIQUETAS / REPRODUÇÃO DE ETIQUETAS**

- |  |  |
|--|--|
| ① CLASSIFICATION LABEL, PLACED ON EXTERIOR SURFACE                             | ② WARNING LABEL, PLACED INSIDE THE UNIT                          |
| ① ETIQUETA DE CLASIFICACION, PROVISTA SOBRE LA SUPERFICIE EXTERIOR             | ② ETIQUETA DE ADVERTENCIA, PEGADA EN EL INTERIOR DE LA UNIDAD    |
| ① ETIQUETA DE CLASSIFICAÇÃO LOCALIZADA NA PARTE POSTERIOR DA CAIXA DO APARELHO | ② ETIQUETA DE ADVERTÊNCIA LOCALIZADA NA PARTE INTERNA DA UNIDADE |



**CAUTION:** Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)

**WARNING:** Osynlig laserstrålning när denna del är öppnad och spårren är urkopplad. Betrakta ej strålen. (s)

**ADVARESEL:** Uosynlig laserstrålning ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling (d)

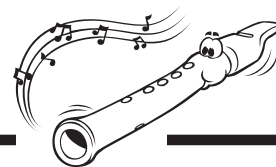
**VARO:** Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** 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.

1. PRODUCTO LÁSER CLASE 1
2. **PRECAUCIÓN:** En el interior hay radiación láser invisible. Evite el contacto directo con el haz.
3. **PRECAUCIÓN:** No abra la tapa superior. En el interior de la unidad no existen piezas reparables por el usuario; deje todo servicio técnico en manos de personal calificado.

1. PRODUTO LASER CLASSE 1
2. **CUIDADO:** O laser emite uma radiação invisível que é perigosa, caso o aparelho esteja aberto e a trava inoperante ou danificada. Evite exposição direta ao feixe dos raios.
3. **CUIDADO:** Não abra a caixa do aparelho. Não existem peças reparáveis pelo usuário na parte interna da unidade. Solicite assistência técnica somente a pessoal técnico qualificado.

# 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 and 11.
- The following marks are used in this manual:



Gives you warnings and cautions to prevent 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 built-up 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 starting heating 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.

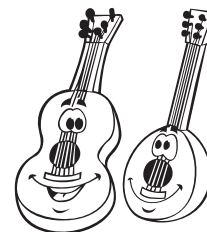
### Others

- 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.



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.

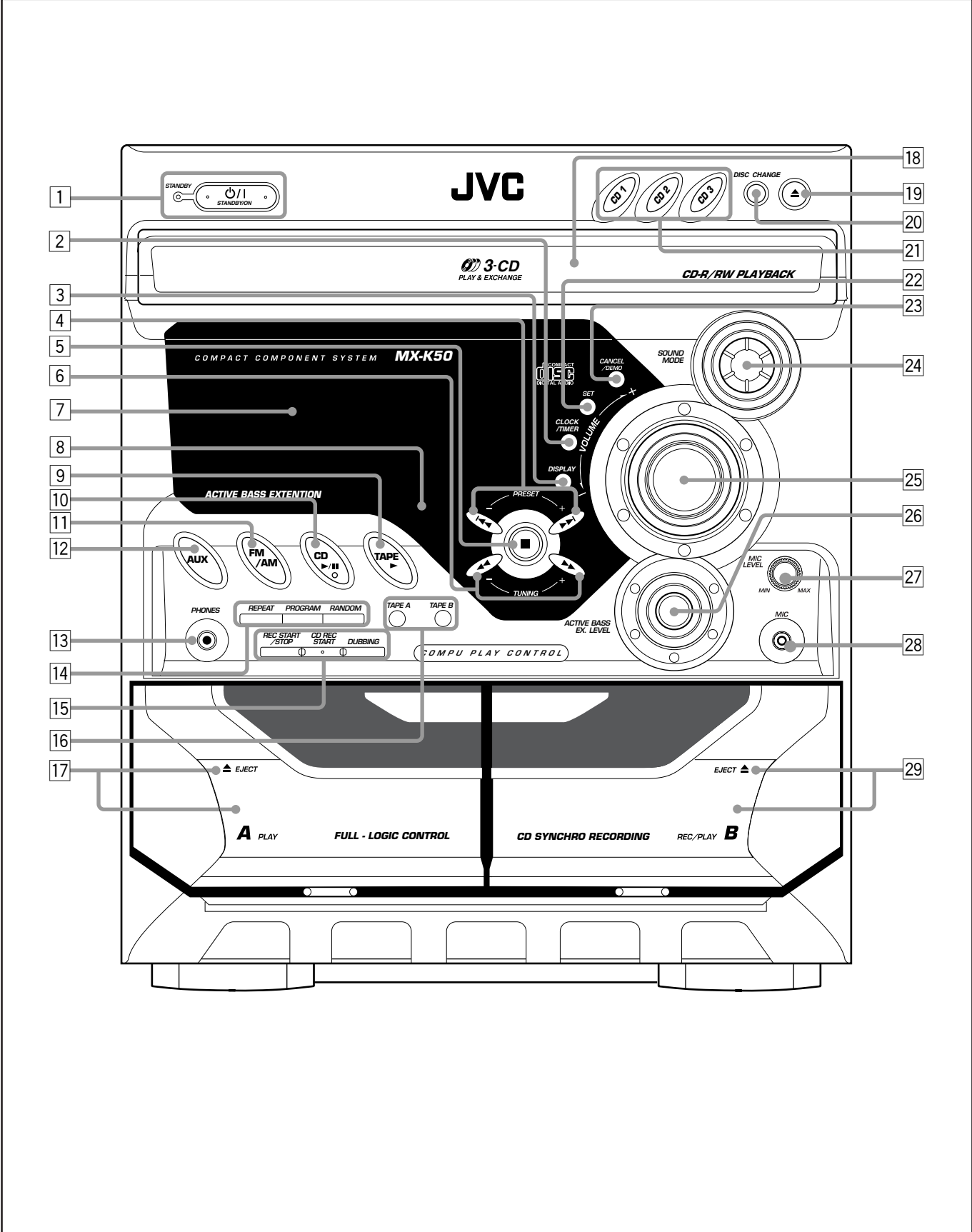


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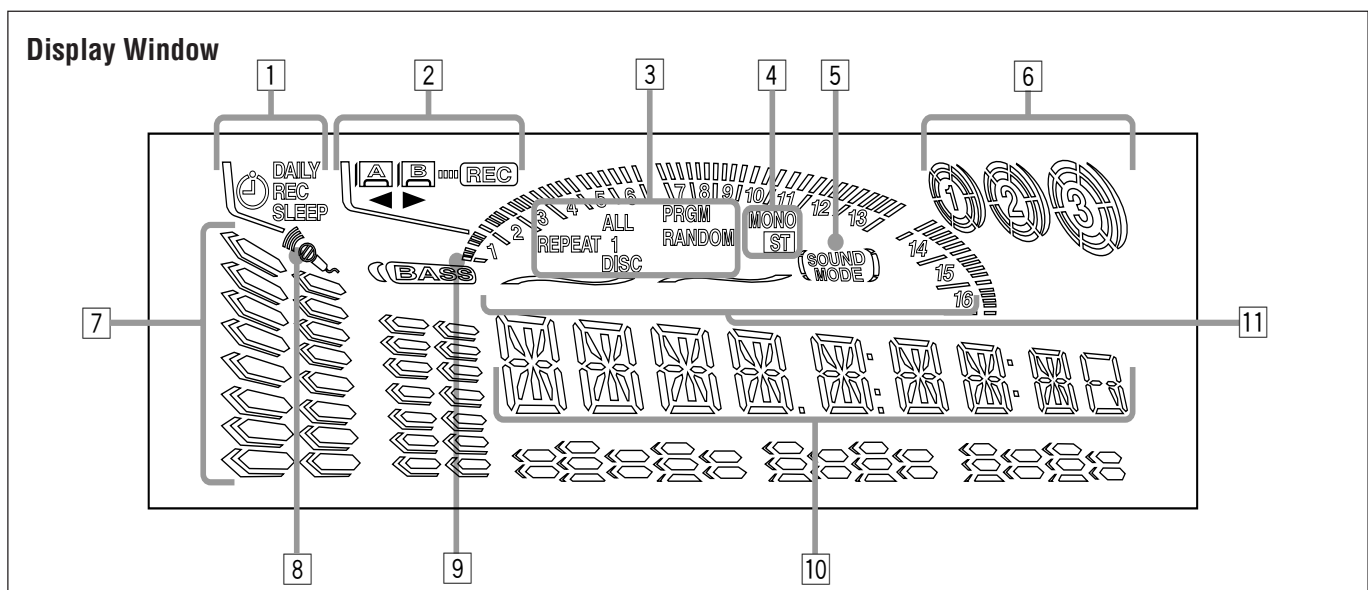
# Location of the Buttons and Controls

Become familiar with the buttons and controls on your unit.

## Front Panel







See pages in the parentheses for details.

### Front Panel

- 1 **⏻/⏹** STANDBY/ON button and STANDBY lamp (9, 10)
- 2 **CLOCK/TIMER** button (9, 21 – 23)
- 3 **DISPLAY** button (9)
- 4 **PRESET +/-** buttons (12)  
◀◀/▶▶ (reverse search/forward search) buttons (9, 14 – 16, 21 – 23)
- 5 **■** (stop) button (13 – 20)
- 6 **TUNING +/-** buttons (12)  
◀◀/▶▶ (fast rewind/fast forward) buttons (10, 14, 17)
- 7 Display window
- 8 Remote sensor
- 9 **TAPE ▶** button and lamp (10, 17, 19)  
*Pressing this button also turns on the unit.*
- 10 **CD ▶/⏹** (play/pause) button and lamp (10, 13 – 15, 20)  
*Pressing this button also turns on the unit.*
- 11 **FM/AM** button and lamp (10, 12)  
*Pressing this button also turns on the unit.*
- 12 **AUX** button and lamp (10)  
*Pressing this button also turns on the unit.*
- 13 **PHONES** jack (10)
- 14 **REPEAT** button (13, 14, 16)  
PROGRAM button (15)  
RANDOM button (16)
- 15 **REC START/STOP** button (18, 20)  
CD REC START button (19)  
DUBBING button (19)
- 16 **TAPE A** button (17)  
TAPE B button (17)
- 17 **Deck A** cassette holder (17, 19)  
*Pressing the ▲ EJECT portion opens the holder.*
- 18 Carrousel
- 19 **▲** (Carrousel open/close) button (13 – 16)  
*Pressing this button also turns on the unit.*
- 20 **DISC CHANGE** button (13, 14)

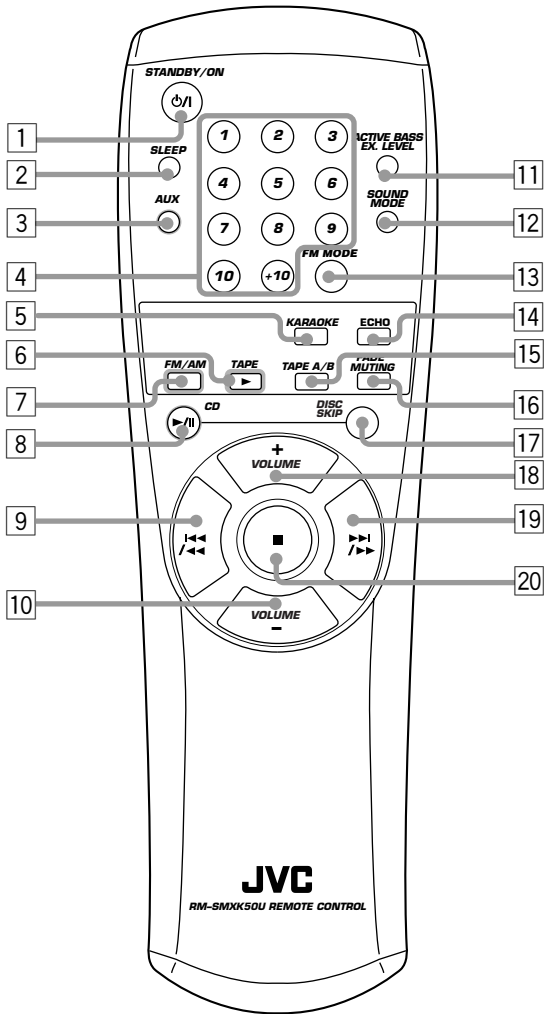
- 21 **Disc number buttons and lamps** (CD1, CD2, and CD3) (14 – 16, 19)  
*Pressing one of these buttons also turns on the unit.*
- 22 **SET** button (9, 12, 15, 21 – 23)
- 23 **CANCEL/DEMO** button (8, 9, 15, 21, 22)
- 24 **SOUND MODE** control (11)
- 25 **VOLUME** control (10, 20)
- 26 **ACTIVE BASS EX. LEVEL** control (11)
- 27 **MIC LEVEL** control (20)
- 28 **MIC** jack (20)
- 29 **Deck B** cassette holder (17 – 19)  
*Pressing the EJECT ▲ portion opens the holder.*

### Display window

- 1 **Timer indicators**
  - DAILY (daily timer), REC (recording timer), SLEEP (sleep timer), and ⏻ (timer) indicators
- 2 **Tape operation indicators**
  - A/B (operating deck), REC (recording), and ◀▶ (tape running) indicators
- 3 **CD play mode indicators**
  - REPEAT (1, 1 DISC, ALL DISC), PRGM (program), and RANDOM indicators
- 4 **Tuner operation indicators**
  - MONO and ST (stereo) indicators
- 5 **SOUND MODE** indicator
- 6 **Disc indicators**
- 7 **Volume level, Active Bass Ex. level, and Sound Mode pattern indicators**
- 8 **Karaoke** (🎤) and **echo** (🔊) indicators
- 9 **BASS** and its level indicators
- 10 **CD track number indicators**
- 11 **Main display**
  - Shows the source name, frequency, etc.

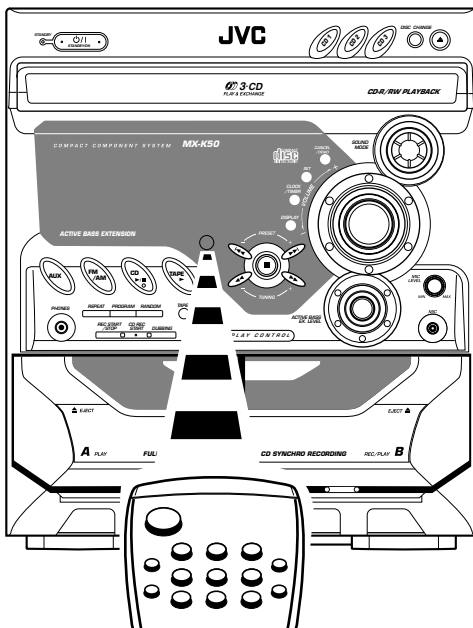


## Remote Control



## Remote Control

- 1 STANDBY/ON button (9)
- 2 SLEEP button (23)
- 3 AUX button (10)  
*Pressing this button also turns on the unit.*
- 4 Number buttons (12, 14)
- 5 KARAOKE button (20)
- 6 TAPE button (10, 17)  
*Pressing this button also turns on the unit.*
- 7 FM/AM button (10, 12)  
*Pressing this button also turns on the unit.*
- 8 CD button (10, 13 – 15)  
*Pressing this button also turns on the unit.*
- 9 (reverse search/fast rewind) button (12, 14, 16, 17)
- 10 VOLUME – button (10, 20)
- 11 ACTIVE BASS EX. LEVEL button (11)
- 12 SOUND MODE button (11)
- 13 FM MODE button (12)
- 14 ECHO button (20)
- 15 TAPE A/B button (17)
- 16 FADE MUTING button (10)
- 17 DISC SKIP button (13, 14)
- 18 VOLUME + button (10, 20)
- 19 (forward search/fast forward) button (12, 14, 16, 17)
- 20 (stop) button (13 – 20)



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

## Unpacking

After unpacking, check to be sure that you have all the following items.

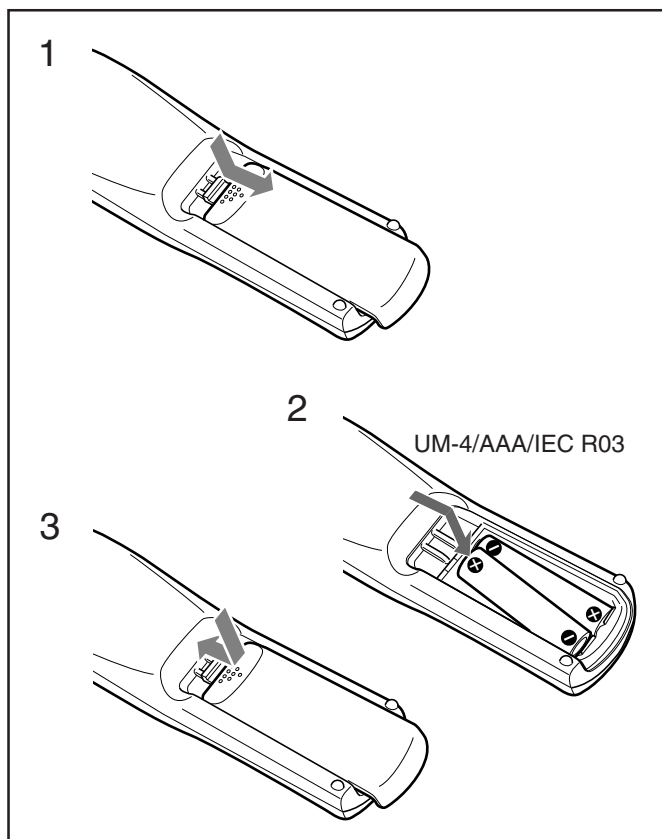
The number in the parentheses indicates the quantity of the pieces supplied.

- AM loop antenna (1)
- FM antenna (1)
- Remote control (1)
- Batteries (2)
- AC plug adaptor (1)

If any is missing, consult your dealer immediately.

## Putting the Batteries into the Remote Control

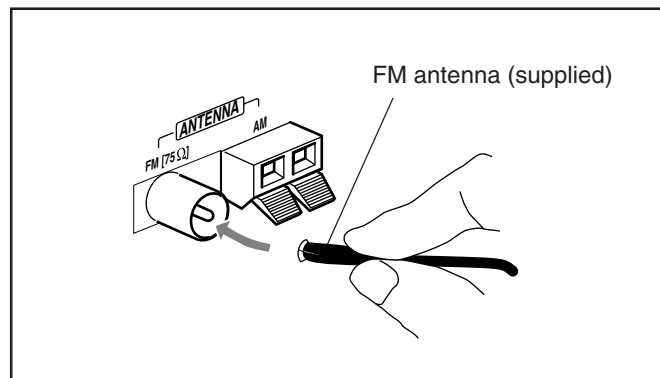
Insert the batteries—UM-4/AAA/IEC R03—into the remote control, by matching the polarity (+ and –) on the batteries with the + and – markings on the battery compartment. When the remote control can no longer operate the unit, replace both batteries at the same time.



- 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



- 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.**

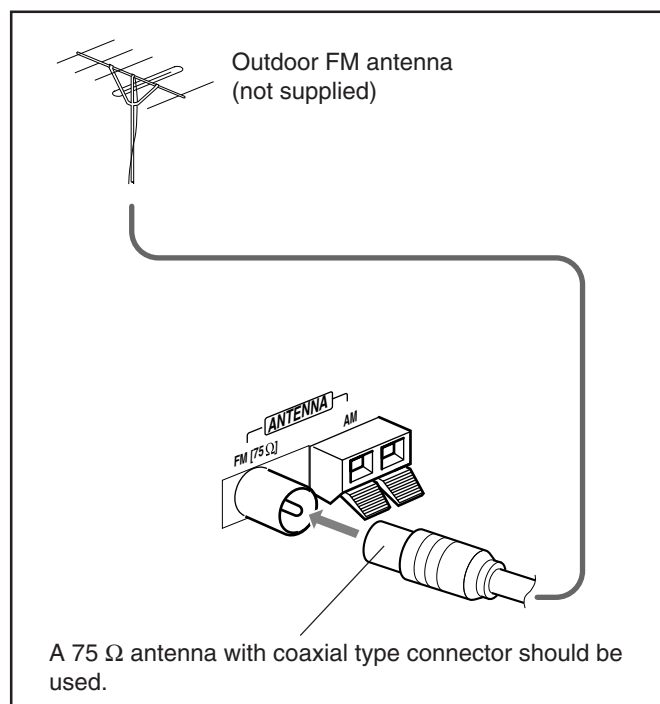


#### About the supplied FM antenna

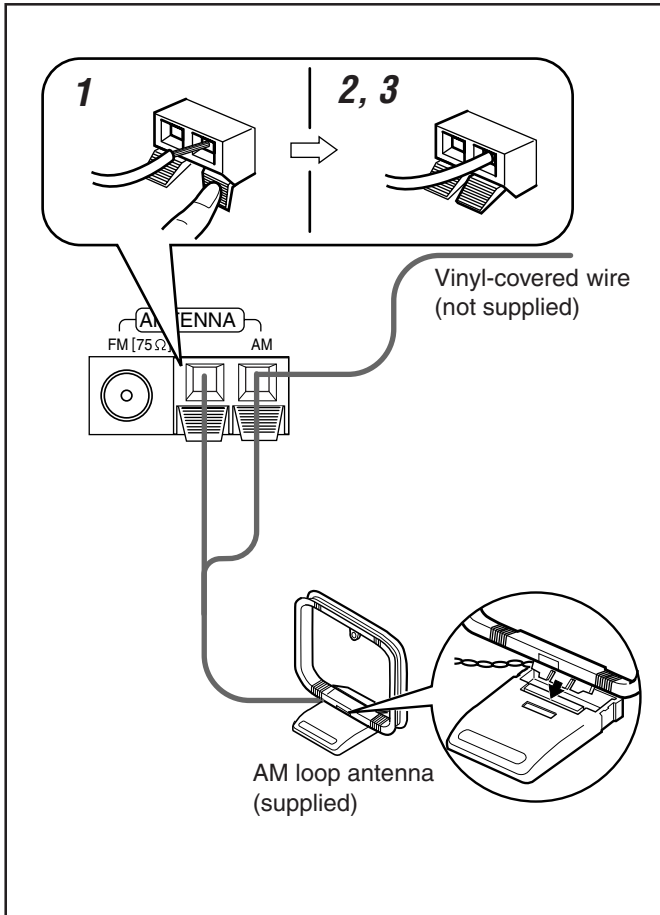
The FM antenna supplied with this unit can be used as temporary measure. If reception is poor, you can connect an outdoor FM antenna.

#### To connect an outdoor FM antenna

Before connecting it, disconnect the supplied FM antenna.



## AM antenna



- 1** Press and hold the clamp of the AM terminal on the rear of the unit.
- 2** Insert the end of the AM loop antenna cord into the terminal.
  - If the AM loop antenna wire is covered with vinyl, remove the vinyl by twisting it as shown in the diagram.
- 3** Release the finger from the clamp.
- 4** Turn the AM loop antenna until you have the best reception.

### To connect an outdoor AM antenna

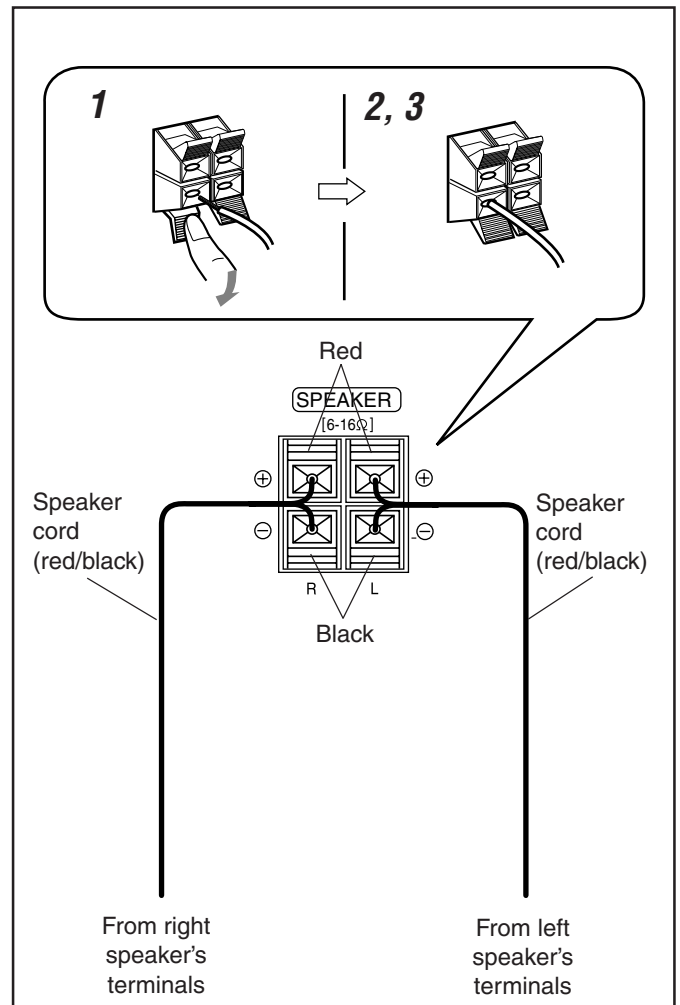
When reception is poor, connect a single vinyl-covered wire to the AM terminal and extend it horizontally. (The AM loop antenna must remain connected.)



#### For better reception of both FM and AM

- 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** Press and hold the clamp of the speaker terminal on the rear of the unit.
- 2** Insert the end of the speaker cord into the terminal.
 

Match the polarity (colors): Red (+) to red (+) and black (-) to black (-).

  - If the wire is covered with vinyl, remove the vinyl by twisting it as shown in the diagram.
- 3** Release the finger from the clamp.

### 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 one speaker terminal.



## Connecting Other Equipment

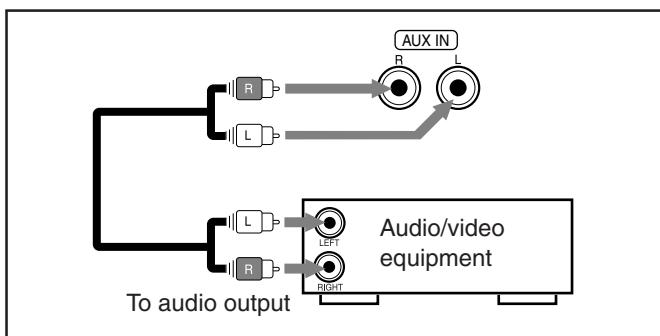
You can connect an audio equipment.



- 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

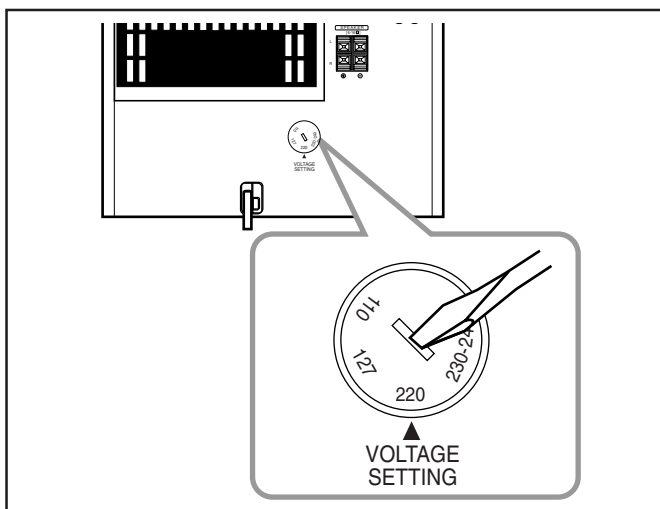
Be sure that the plugs of the audio cords are color coded: White plugs and jacks are for left audio signals, and red ones for right audio signals.



For playing the other equipment through this unit, connect between the audio output jacks on the other equipment and AUX IN jacks by using audio cords (not supplied).

## Adjusting the Voltage Selector

Before plugging in the unit, set the correct voltage for your area with the voltage selector on the rear of the unit.



Use a screw driver to rotate the voltage selector so the voltage number the voltage mark is pointing at is the same as the voltage where you are plugging the this unit. (See the back cover page.)



DO NOT plug in before setting the voltage selector on the rear of the unit and all connection procedures are complete.

**NOW, you can plug in the unit and other connected equipment FINALLY!**

## Canceling the Display Demonstration

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

### On the unit ONLY:

To cancel the display demonstration, press CANCEL/DEMO.



### When you press other buttons

The display demonstration stops temporarily. It will start automatically again (if no operation is done for 2 minutes) until you cancel it by pressing CANCEL/DEMO.

### To start the display demonstration manually

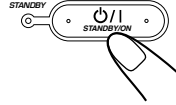
Press and hold CANCEL/DEMO again for more than 2 seconds.



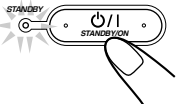
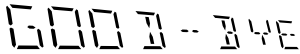
# Common Operations

## Turning On or Off the Power

To turn on the unit, press STANDBY/ON so that the STANDBY lamp goes off.



To turn off the unit (on standby), press STANDBY/ON again so that the STANDBY lamp 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.



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

The clock is reset to “-- : --” soon, while the tuner preset stations (see page 12) will be erased in a few days.

## Setting the Clock

Before operating the unit any further, first set the clock built in this unit. You can set the clock whether the unit is on or off.

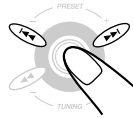
### On the unit ONLY:

**1 Press CLOCK/TIMER.**



The hour digits start flashing on the display.

**2 Press or to adjust the hour, then press SET.**

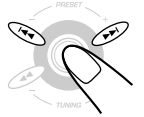
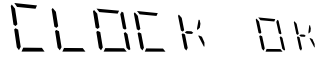


The minute digits start flashing on the display.

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



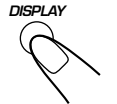
**3 Press or to adjust the minute, then press SET.**



### To check the clock time

Press DISPLAY while playing any source.

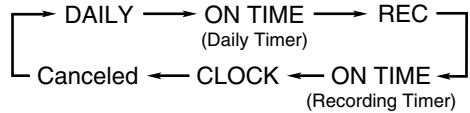
- Each time you press the button, the source indication and the clock time alternate on the display.



### To adjust the clock again

If you have adjusted the clock before, you need to press CLOCK/TIMER repeatedly until “CLOCK” is selected.

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



**If there is a power failure**

The clock loses the setting and is reset to “-- : --.” You need to set the clock again.

## Setting the AM Tuner Interval Spacing

Some countries space AM stations 9 kHz apart, and some countries use 10 kHz spacing.

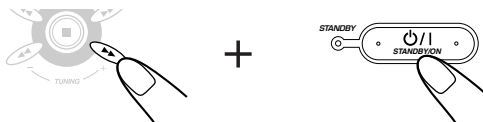
- This function works only when the unit is turned off.
- 10 kHz spacing is the initial setting.

### On the unit ONLY:

To select 9 kHz, press STANDBY/ON while holding down when the unit is in standby mode. "AM - 9" appears on the display.



To select 10 kHz interval again, press STANDBY/ON while holding down when the unit is in standby mode. "AM - 10" appears on the display.



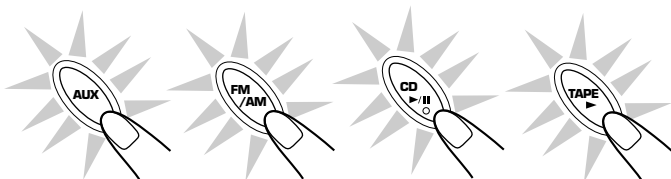
## Selecting the Sources

To listen to the radio, press FM/AM. (See page 12.)

To play back CDs, press CD . (See pages 13 – 16.)

To play back tapes, press TAPE . (See page 17.)

To select the external equipment as the source, press AUX.



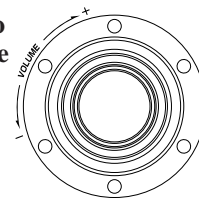
When you press the play button for a particular source (AUX, FM/AM, CD , and TAPE ), the unit turns on (and the unit starts playing the source if it is ready—COMPU PLAY CONTROL).

## Adjusting the Volume

You can adjust the volume level only while the unit is turned on.

Turn the VOLUME control clockwise to increase the volume or counterclockwise to decrease it.

- The volume level can be adjusted in 32 steps (VOL MIN, VOL 1 — VOL 30, and VOL MAX).



VOL 15

When using the remote control, press VOLUME + to increase the volume or press 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 is on standby.

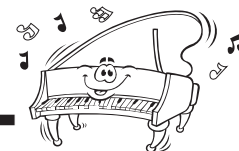
### To turn down the volume level temporarily

Press FADE MUTING on the remote control. The volume level gradually decreases to "VOL MIN."



To restore the sound, press the button again.



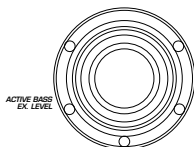


## Reinforcing the Bass Sound

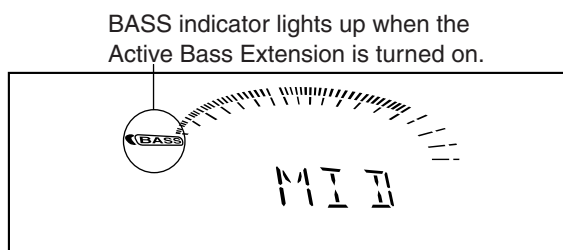
This function only affects the playback sound, not your recording.

The ACTIVE BASS EX. (extension) LEVEL control provided for this unit can maintain the richness and fullness of the bass sound while listening to any source at low volume.

Turn the **ACTIVE BASS EX. LEVEL** control clockwise to increase the bass sound or counterclockwise to decrease it.



- The bass sound level can be adjusted in 3 steps (LOW, MID, HIGH).



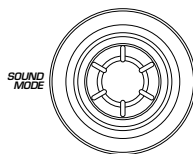
When using the remote control, press ACTIVE BASS EX. LEVEL to adjust the bass sound level. Each time you press the button, the Active Bass Extension level changes as OFF → LOW → MID → HIGH → (back to the beginning).

## Selecting the Sound Modes

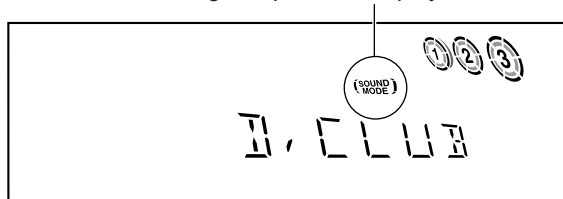
This function only affects the playback sound, not your recording.

You can select one of the 6 preset sound modes (3 surround modes and 3 SEA—Sound Effect Amplifier—modes).

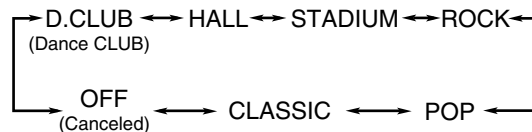
To select the sound modes, turn the **SOUND MODE** control until the sound mode you want appears on the display.



SOUND MODE indicator also lights up on the display



- As you turn the control, the sound modes change as follows:



**Surround modes\*:**

- D.CLUB** : 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:**

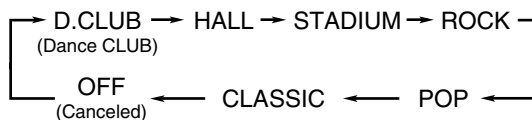
- ROCK** : Boosts low and high frequency. Good for acoustic music.
- POP** : Good for vocal music.
- CLASSIC** : Good for classical music.
- OFF** : Cancels the sound mode.

- \* Surround elements are added to the SEA elements to create being-there feeling in your room. When one of these modes is selected, the SOUND MODE indicator lights up as — **(SOUND MODE)**

While one of the SEA modes (SEA elements without surround elements) is selected, the SOUND MODE indicator lights up as — **SOUND MODE**

When using the remote control, press SOUND MODE to select the sound mode.

- Each time you press the button, the sound modes change as follows:



# Listening to the Radio



Before operating the tuner, make sure you have selected the correct AM Tuner interval spacing (see page 10).

## Tuning in a Station

### 1 Press FM/AM.

The unit automatically turns on and tunes in the previously tuned station (either FM or AM).

- Each time you press the button, the band alternates between FM and AM.



### 2 Start searching for stations.

**On the unit:**

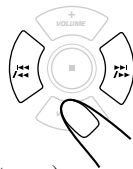
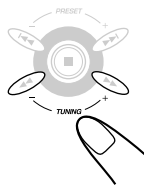
Press and hold TUNING + or TUNING - for more than 1 second.

**On the remote control:**

Press and hold <img alt="left arrow icon" data-bbox="125 383 145 398"/> or <img alt="right arrow icon" data-bbox="155 383 175 398"/> 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 during searching, press TUNING + or TUNING - (or <img alt="left arrow icon" data-bbox="125 515 145 530"/> or <img alt="right arrow icon" data-bbox="155 515 175 530"/> on the remote control).



When you press TUNING + or TUNING - (or <img alt="left arrow icon" data-bbox="125 555 145 570"/> or <img alt="right arrow icon" data-bbox="155 555 175 570"/> on the remote control) briefly and repeatedly

The frequency changes step by step.

### To change the FM reception mode

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



To restore the stereo effect, press FM MODE again so that "STEREO" appears on the display.

In this stereo mode, you can hear stereo sounds when a program is broadcast in stereo.

## Presetting Stations

You can preset 30 FM and 15 AM stations.

In some cases, test frequencies have been already memorized for the tuner since the factory examined the tuner preset function before shipment. This is not a malfunction. You can preset the stations you want into memory by following the presetting method.

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 2 again.

### On the unit ONLY:

1 Tune in the station you want to preset (in this example, of FM 87.50).

- See "Tuning in a Station".

FM 87.50

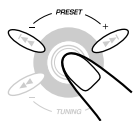
2 Press SET.

SET



3 Press PRESET + or PRESET - to select a preset number.

P-01



4 Press SET again.

STORED



The tuned station in step 1 is stored in the preset number selected in step 3.

- Storing a new station on a used number erases the previously stored one.



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

The preset stations will be erased in a few days. If this happens, preset the stations again.

## Tuning in a Preset Station

### 1 Press FM/AM.

The unit automatically turns on and tunes in the previously tuned station (either FM or AM).

- Each time you press the button, the band alternates between FM and AM.



### 2 Select a preset number.

**On the unit:**

Press PRESET + or PRESET -.

**On the remote control:**

Press the number buttons.

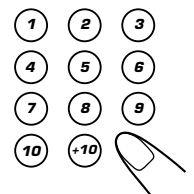
Ex.: For preset number 5, press 5.

For preset number 15, press +10 then 5.

For preset number 20, press +10, then 10.

For preset number 25, press +10, +10, then 5.

For preset number 30, press +10, +10, then 10.



# Playing Back CDs

This unit has been designed to playback the following CDs: Audio CD, CD-R, and 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 when they are already "finalized."

- You can play back your original CD-Rs or CD-RWs recorded in music CD format ONLY. (If CD-RWs have been recorded in different format, erase all the data on CD-RWs completely before re-recording on the discs.)

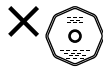


DO NOT play back CD-Rs or CD-RWs recorded the sound files such as MP3.

- 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.

## Important notices:

- In general, you will have the best performance by keeping your CDs and the mechanism clean.
  - Store CDs in their cases, and keep them in cabinets or on shelves.
  - Keep the unit's carousel closed when not in use.
- Continuous use of irregular shaped discs (heart-shape, octagonal, etc.) can damage the disc rotating mechanism.



- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than for regular CDs.

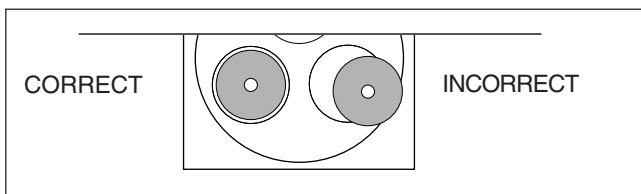
## Loading CDs

### 1 Press $\blacktriangle$ .

The unit automatically turns on and the carousel comes out.



### 2 Place one or two discs correctly on the front recesses of the disc tray, with its label side up.



- When using a CD single (8 cm), place it on the inner recess of the disc tray.

### 3 If you wish to load a third disc, press DISC CHANGE on the unit or DISC SKIP on the remote control.

The disc tray rotates by 120°.



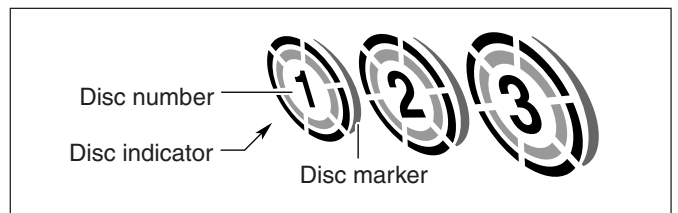
### 4 Press $\blacktriangle$ again.

The carousel closes.



## About the disc indicators

Each disc indicator corresponds to the disc tray of the same number.



- The disc marker lights up for the disc number you have selected.
- The disc indicator rotates while the corresponding CD is being played.
- The disc indicator goes off when the unit has detected that there is no CD on the corresponding disc tray.

## Playing Back CDs—All Disc and One Disc

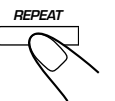
You can play all loaded CDs continuously—All Disc play, or one selected disc—One Disc play.

### All Disc play

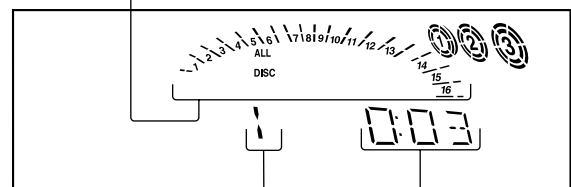
#### 1 Load CDs.

- If the current playing source is not the CD player, press CD  $\blacktriangleright$ /II, then  $\blacksquare$  before going to the next step.

#### 2 Press REPEAT repeatedly so that the ALL DISC indicator lights up on the display.



Track number of the currently playing disc flashes (Track numbers exceeding 16 are not displayed.)



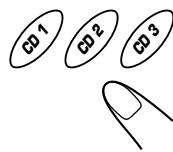
Track number Elapsed playing time

- Each time you press the button, the indication on the display changes as follows:



\* See page 16.

### 3 Press one of the disc number buttons (CD1, CD2 or CD3) for the disc you want to start to play from.



CD play starts from the first track of the selected disc.

- Pressing CD ►/|| instead of the disc number buttons starts playing back if a CD is on the trays.

**To stop during play, press ■.**

**To remove the disc, press ▲.**



#### CD playback sequence

When 3 CDs are loaded on the disc trays, they are played in one of the following sequences.

- When CD1 is pressed : CD 1 ⇒ CD 2 ⇒ CD 3 (then stops)
- When CD2 is pressed : CD 2 ⇒ CD 3 ⇒ CD 1 (then stops)
- When CD3 is pressed : CD 3 ⇒ CD 1 ⇒ CD 2 (then stops)
- \* When only 2 CDs are loaded, they are played in the same order, but the disc tray without a CD is skipped.

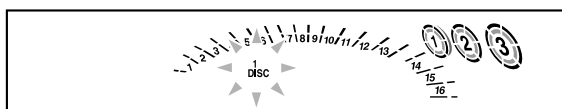
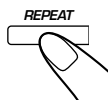
#### One Disc play

When 2 or 3 CDs are loaded on the disc trays, you can select one particular disc to be played back.

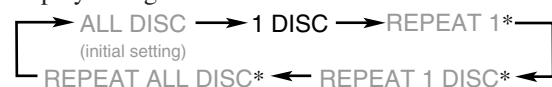
#### 1 Load CDs.

- If the current playing source is not the CD player, press CD ►/||, then ■ before going to the next step.

#### 2 Press REPEAT repeatedly so that the 1 DISC indicator lights up on the display.

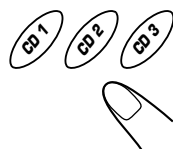


- Each time you press the button, the indication on the display changes as follows:



\* See page 16.

### 3 Press one of the disc number buttons (CD1, CD2 or CD3) you want to listen.



Playback stops when all tracks of the selected disc are played once and resumes to All Disc play.

**To stop during play, press ■.**

**To remove the disc, press ▲.**

**To exit from One Disc play, press REPEAT repeatedly so that ALL DISC indicator lights up on the display.**



The following operations will also cancel the One Disc play and restore All Disc play when—

- Turning off the power,
- Ejecting the carousel, or
- Changing the source to play.

## Basic CD Operations

While playing a CD, you can do the following operations.

#### To exchange CDs during playback of another

Press DISC CHANGE to change the CD and the carousel comes out.

If you change CDs during play, the current play will not stop until all CDs you have changed are played.

DISC CHANGE



**To close the carousel, press DISC CHANGE or ▲.**

#### To skip to the another CD in the carousel

Press DISC SKIP on the remote control.

DISC SKIP

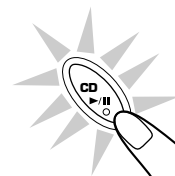


#### To stop play for a moment

Press CD ►/||.

While pausing, "PAUSE" appears on the display.

**To resume play, press CD ►/|| again.**



#### To locate a particular point in a track

During play, press and hold ◀◀ or ▶▶.

- ◀◀: Fast reverses the disc.
- ▶▶: Fast forwards the disc.

When using the remote control, press and hold ◀◀/◀◀ or ▶▶/▶▶.

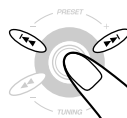


#### To go to another track

Press ◀◀ or ▶▶ repeatedly before or during playback.

- ◀◀: Goes back to the beginning of the current or previous tracks.
- ▶▶: Skips to the beginning of the next or succeeding tracks.

When using the remote control, press ◀◀/◀◀ or ▶▶/▶▶ before or during playback.



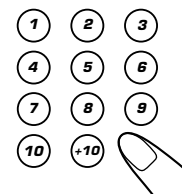
If you press and hold ◀◀ or ▶▶ on the unit before playing

The track number keeps changing until you release it.

#### To go to another track directly using the number buttons

Pressing the number button(s) before or during play allows you to start playing the track number you want.

- Ex.: For track number 5, press 5.  
 For track number 15, press +10, then 5.  
 For track number 20, press +10, then 10.  
 For track number 32, press +10, +10, +10, then 2.



## Programming the Playing Order of the Tracks —Program Play

You can arrange the order in which the tracks play before you start playing. **You can program up to 32 tracks.**

- To use Repeat play (see page 16) for Program play, press REPEAT after starting Program play.

### On the unit ONLY:

#### 1 Load CDs.

- If the current playing source is not the CD player, press CD ►/II, then ■ before going to the next step.

#### 2 Press PROGRAM so that “PROGRAM” appears on the display.



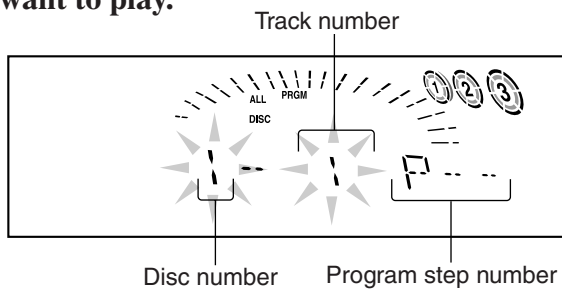
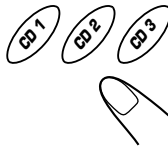
The PRGM (program) indicator also lights up on the display.

- All Disc play is selected automatically. You cannot select One Disc play for Program play.



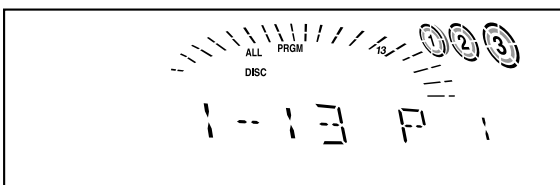
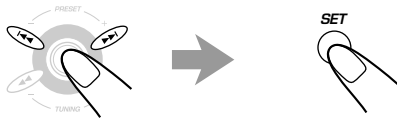
- If a program has been stored in memory, the program is called up.

#### 3 Press one of the disc number buttons (CD1, CD2, and CD3) to select the disc number you want to play.



#### 4 Press ◀◀ or ▶▶ to select the track number, then press SET.

Each time you select a track and press SET, the selected track number is added to the track number indicator.



#### 5 Program other tracks you want.

- To program tracks from the same disc, repeat step 4.
- To program tracks from a different disc, repeat steps 3 and 4.

#### 6 Press CD ►/II.

The tracks are played in the order you have programmed.



To stop during play, press ■.

To exit from Program play, press PROGRAM again before or after play so that the unit enters All Disc play. (The program you have made is stored in memory until you turn off the unit, eject the carousel, or erase the program.)

- Program play is also canceled when you press ▲.

#### To modify the program

Before playing, you can erase the last programmed track shown on the display by pressing CANCEL/DEMO.



- Each time you press the button, the last programmed track is erased from the program.

To check the program during play, press ◀◀ (or ▶▶) so that the playing track will change according to the program (or reverse) order. When using the remote control, press ◀◀/◀◀ (or ▶▶/▶▶).

To add tracks in the program before play, simply select the disc numbers and/or track numbers you want to add by following steps 3 and 4 of the programming procedure.

To erase the entire program before or during play, press ■ twice.

- Turning the power off or ejecting the carousel will also erase the stored memory.



If you try to program a 33rd track “FULL” will appear on the display.



If your entry is ignored

You have tried to program a track from an empty tray, or a track number that does not exist on the CD. Such entries are ignored.





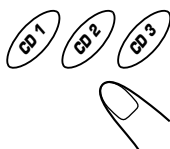
## Playing at Random—Random Play

The tracks of the selected CD will play at random.

- To use Random play, you have to cancel the Program play.

### 1 Load a CD.

- ### 2 Press one of the disc number buttons (CD1, CD2, and CD3) for the disc you want to play, then press ■.



- ### 3 Press RANDOM so that “RANDOM” appears on the display.



The RANDOM indicator also lights up on the display.

- Activating Random play cancels Repeat play or All Disc play. (One Disc play is automatically selected.)



- The tracks are played automatically at random. Random play ends when all tracks are played once.

To stop during play, press ■.

To exit from Random play, press RANDOM again during play so that the unit enters All Disc play.

- Random play is also canceled when you press ▲.



If you press |◀◀ or ▶▶|

Skips to the next track selected randomly.

## Repeating Tracks or CDs—Repeat Play

You can have all the CDs, the program or the individual track currently playing repeat as many times as you like.

- Repeat play and Random play cannot be used at the same time.

To repeat play, press REPEAT during or before playing.



- Each time you press the button, Repeat play changes as follows, and the following indicator lights up on the display:



- REPEAT 1** : Repeats one track on one CD.
- REPEAT 1 DISC\*\*** : Repeats all the tracks on one CD.
- REPEAT ALL DISC** : Repeats all the tracks on all the CDs, or all the tracks on the program.

\* See pages 13 and 14.

\*\* REPEAT 1 DISC is not used for Program play.

To cancel Repeat play, press REPEAT repeatedly until the REPEAT indicator (REPEAT 1, REPEAT 1 DISC or REPEAT ALL DISC) goes off from the display.

- Repeat play is also canceled when you press ▲.

## Prohibiting Disc Ejection—Tray Lock

You can prohibit CD ejection from the unit and can lock the carousel.

- This operation is possible only while the unit is on with CD selected as the source.

### On the unit ONLY:

To prohibit disc ejection, press ▲ for the carousel while holding ■.

“LOCKED” appears for a while, and the carousel is locked.

To cancel the prohibition and unlock the carousel, press ▲ for the carousel while holding ■.

“UNLOCKED” appears for a while, and the carousel is unlocked.



If you try to eject CDs

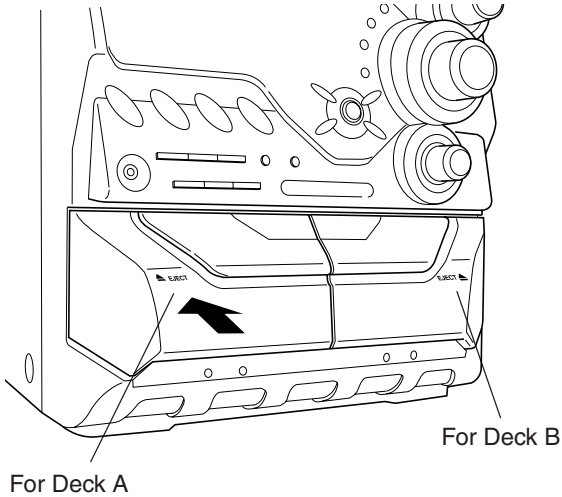
“LOCKED” appears to inform you that the Tray Lock is in use.

# Playing Back Tapes



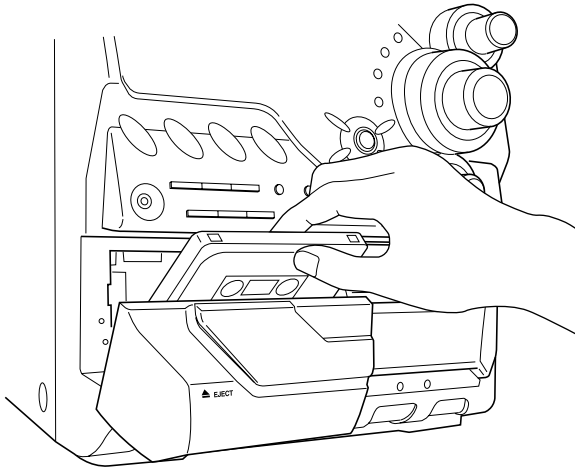
## Playing Back a Tape

- 1** Press EJECT (▲) for the deck you want to use.



- 2** Put a cassette in, with the exposed part of the tape down and the side you want to play facing front.

- You can play back only type I tapes.



- 3** Close the cassette holder gently.

If you put cassettes in both decks A and B, the last deck which you have put a cassette into is selected.

To operate the other deck, press TAPE A or TAPE B (or TAPE A/B on the remote control).

- 4** Press TAPE ►.

The tape play starts and the tape running indicator (►) starts flashing slowly.



When the tape plays to the end, the deck automatically stops.

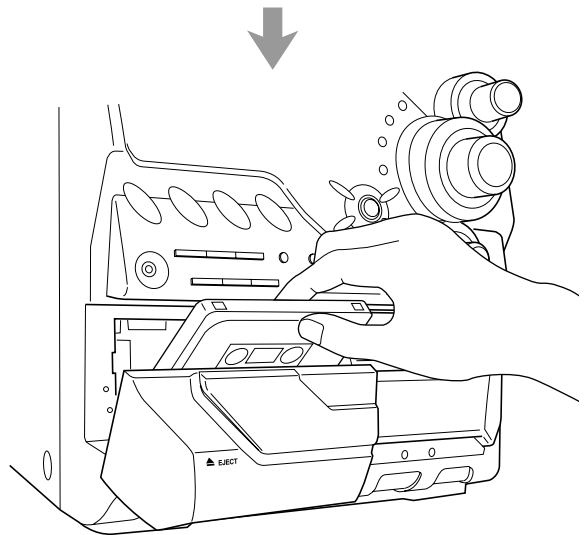
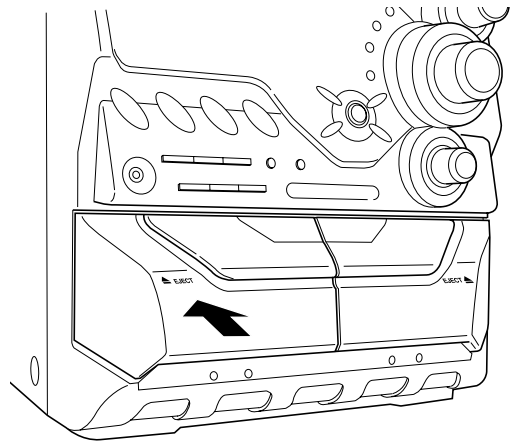
To stop during play, press ■.

To operate the other deck, press TAPE A or TAPE B (or TAPE A/B on the remote control), then TAPE ►.

To fast-forward the tape, press ►► (or ►►/►► on the remote control). The tape running indicator (►) starts flashing quickly.

To rewind the tape, press ◀◀ (or ◀◀/◀◀ on the remote control). The tape running indicator (◀) starts flashing quickly.

To remove the cassette, press ▲ EJECT for deck A or EJECT ▲ for deck B.



The use of the C-120 or thinner tape is not recommended, since characteristic deterioration may occur and this tape easily jams in the pinch-rollers and the capstans.

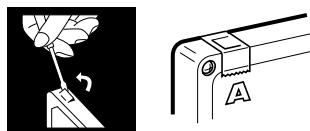


## IMPORTANT:

- It may be unlawful to record or playback copyrighted material without the consent of the copyright owner.
- The recording level is automatically set correctly, so it is not affected by the VOLUME, the ACTIVE BASS EX. LEVEL, and the SOUND MODE controls. Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
- While recording, you can hear sound modes through the speakers or headphones. However, the sound is recorded without these effects (see page 11).
- If recordings you have made have excessive noise or static, the unit may be too close to a TV. Place the unit away from the TV.
- You can use type I tape for recording.

## To protect your recording

Cassettes have two small tabs on the back to protect unexpected erasure or re-recording.



To protect your recording, remove these tabs.

To re-record on a protected tape, cover the holes with adhesive tape.

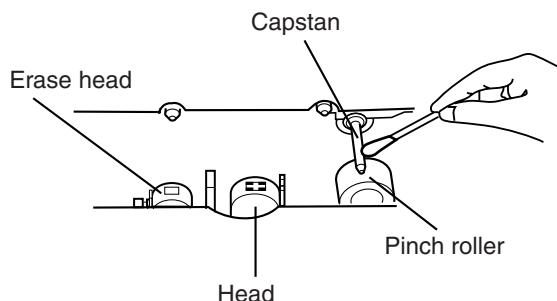
## To keep the best recording and playback sound quality

If the heads, capstans, and pinch rollers of the cassette decks become dirty, the following will occur:

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

## To clean the head, capstan, and pinch roller

Use a cotton swab moistened with alcohol.



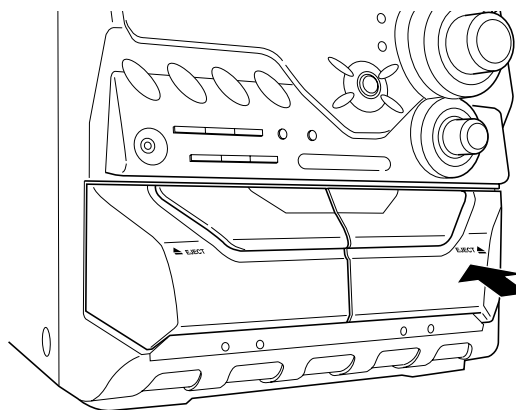
## To demagnetize the head

Turn off the unit, and use a head demagnetizer (available at electronics and audio shops).

## Recording a Tape on Deck B

### On the unit ONLY:

**1** Press EJECT  for deck B.



**2** Put a recordable cassette in, with the exposed part of the tape down and the side you want to record facing front.

**3** Close the cassette holder gently.


**4** Start playing the source—FM, AM, CD player or auxiliary equipment connected to AUX IN jacks.

- For duplicating tapes, see “Dubbing Tapes” on page 19.
- For recording from CD, see “CD Synchronized Recording” on page 19.

**5** Press REC START/STOP.

The REC (recording) indicator lights up on the display and recording starts.



To stop during recording, press REC START/STOP again or .

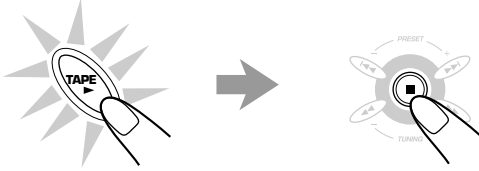
To remove the cassette, press EJECT  for deck B.



## Dubbing Tapes

### On the unit ONLY:

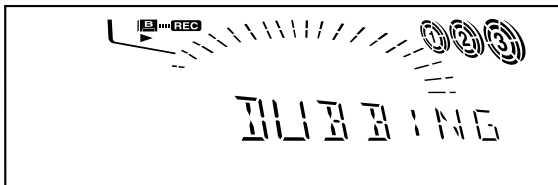
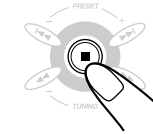
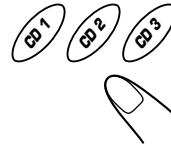
**1** Press **TAPE** ►, then ■.



**2** Put the source cassette in deck A, and a recordable cassette into deck B.

**3** Press **DUBBING**.

Dubbing starts.  
“DUBBING” appears, and the REC (recording) indicator lights up on the display.



To stop during dubbing, press **REC START/STOP** or ■.

To remove the cassette, press ▲ **EJECT** for deck A and **EJECT** ▲ for deck B.

## CD Synchronized Recording

You can easily record a CD onto a tape.

- You can also record the tracks in order you have made the program.

### On the unit ONLY:

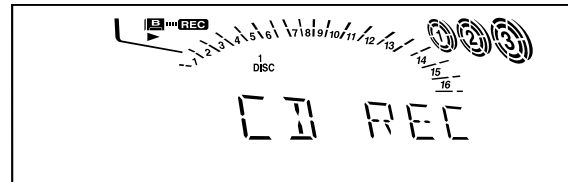
**1** Put a recordable cassette into deck B.

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

**3** Press one of the disc number buttons (**CD1**, **CD2**, and **CD3**) to select the disc, then ■.

**4** Press **CD REC START**.

“CD REC” appears, and the REC (recording) indicator lights up on the display.



Deck B starts recording and the CD player starts playing.  
When the recording is done, the CD player and deck B stop.

To stop during **CD Synchronized Recording**, press **REC START/STOP** or ■.

To remove the cassette, press **EJECT** ▲ for deck B.



# Using the Microphones

You can enjoy singing along (Karaoke) and microphone mixing.

## IMPORTANT:

- Always set the MIC LEVEL to MIN when connecting or disconnecting the microphone.
- When you do not use the microphone, keep the microphones unconnected.

If howling or squealing (feedback) occurs while using the microphone, take the following actions to prevent these noises.

- Adjust the MIC LEVEL and VOLUME controls.
- Avoid pointing the microphone towards the speakers.

## Singing Along—Karaoke

### Vocal Masking

Vocal Masking reduces the lead vocal of the playing source and allows you to replace it by singing into the microphone as the music plays.

- This function cannot be used for multiplex discs or tapes.

#### 1 Turn MIC LEVEL to MIN.

#### 2 Connect the microphone (not supplied) by plugging it into the MIC jack.

The karaoke indicator (🎤) lights up on the display.

#### 3 Start playing the source—CD, tape or other connected component.

#### 4 Press KARAOKE on the remote control repeatedly.

Each time you press the button, Vocal Masking turns on (V.MASK) and off (OFF).

- V.MASK: Reduces the vocals.  
OFF: Cancels Vocal Masking (normal stereo playback).

#### 5 Turn MIC LEVEL and VOLUME controls as you sing into the microphone.

When you finish singing, cancel the Karaoke function by pressing KARAOKE.

- By pressing REC START/STOP, you can record your singing along. (For more details, see page 18.)

To stop during recording, press REC START/STOP again or ■.



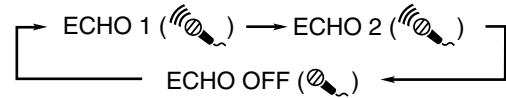
If you use the following sources as the playing source for Vocal Masking, you cannot get the satisfactory results

- Radio programs — a radio signal is not as reliable as the signals coming from a tape or CD.
- Monaural sources.
- Poorly dubbed tapes.
- Sources recorded with duets, strong echo, a chorus, or only a few instruments.

### To apply an echo to your voice

Press ECHO on the remote control so that the echo (🎤) indicator lights up on the display.

Each time you press the button, the echo level changes as follows:



ECHO 2 applies stronger echo effect to your voice.

### Microphone Mixing

When you use microphone with any playback source, follow the procedure below.

#### 1 Turn MIC LEVEL to MIN.

#### 2 Connect the microphone (not supplied) by plugging it into the MIC jack.

#### 3 Start playing the source—CD, tape or other connected component.

#### 4 Turn MIC LEVEL and VOLUME controls as you sing into the microphone.

- By pressing REC START/STOP, you can record your singing along. (For more details, see page 18.)

To stop during recording, press REC START/STOP again or ■.

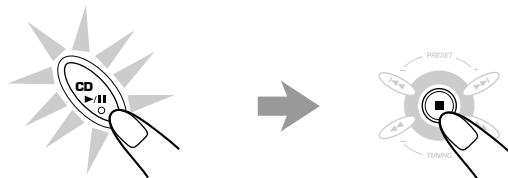
### To use microphone only

Without any background sound, you can use your microphone and record it.

#### 1 Connect the microphone.

#### 2 Press CD ►/||, then ■.

No background sound will be heard.



#### 3 Turn MIC LEVEL and VOLUME controls as you sing into the microphone.

- By pressing REC START/STOP, you can record your singing. (For more details, see page 18.)

To stop during recording, press REC START/STOP again or ■.

# Using the Timers

There are three timers available—Daily Timer, Recording Timer, and Sleep Timer.

Before using the timers, you need to set the clock built in the unit. (See “Setting the Clock” on page 9.)

## Using Daily Timer

With Daily Timer, you can wake to your favorite music or radio program. You can set the timer whether the unit is on or off.

### How Daily Timer actually works

The unit automatically turns on, set the volume level to the preset level, and starts playing the specified source when the on-time comes (the ☺ indicator flashes while the timer is operating). Then, when the off-time comes, the unit automatically turns off (stands by).

Daily Timer works every day unless you cancel it.

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- If you have made a mistake while setting timer, press CANCEL/DEMO. (However, this does not always work. If CANCEL/DEMO does not work, press CLOCK/TIMER repeatedly and start from step 1 again.)

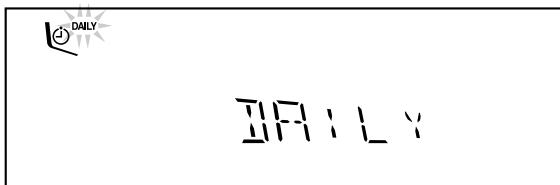
#### Before you start...

- *When using a CD as the source to play:*  
—Make sure there is a CD on the currently selected disc number tray.
- *When using a tape as the source to play:*  
—Make sure that a tape is in the deck whose deck indicator (A or B) is lit on the display.
- *When using the external component as the source to play:*  
—Set the timer equipped with the external component at the same time.

### On the unit ONLY:

#### 1 Press CLOCK/TIMER repeatedly until “DAILY” appears on the display.

☺ indicator lights up and the DAILY (daily timer) indicator starts flashing on the display.

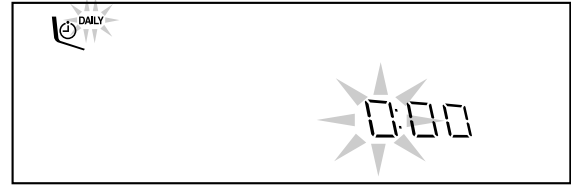


- Each time you press the button, the clock/timer setting modes change as follows:



#### 2 Press CLOCK/TIMER again.

“ON TIME” appears for 2 seconds, then the unit enters on-time setting mode.



#### 3 Set the on-time you want the unit to turn on.

- 1) Press ◀◀ or ▶▶ to set the hour, then press SET.
  - 2) Press ◀◀ or ▶▶ to set the minute, then press SET.
- “OFF TIME” appears for 2 seconds, then the unit enters off-time setting mode.

#### 4 Set the off-time you want the unit to turn off (on standby).

- 1) Press ◀◀ or ▶▶ to set the hour, then press SET.
  - 2) Press ◀◀ or ▶▶ to set the minute, then press SET.
- The unit enters source selecting mode.



#### 5 Press ◀◀ or ▶▶ to select the source to play, then press SET.

- Each time you press ◀◀ or ▶▶, the source changes as follows:



TUNER FM : tunes in to a specified preset FM station.

→ go to step 6.

TUNER AM : tunes in to a specified preset AM station.

→ go to step 6.

CD : plays a disc from the first track.

→ go to step 7.

TAPE : plays a tape in deck A or B.

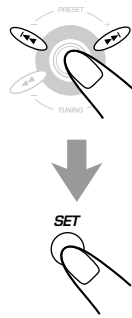
→ go to step 7.

AUX : plays an external source.

→ go to step 7.

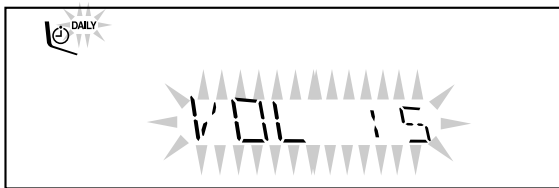
## 6 Select the preset station number.

Press ◀◀ or ▶▶ to select the preset station number, then press SET.  
The unit enters volume setting mode.



## 7 Press ◀◀ or ▶▶ to set the volume level.

You can select the volume level from VOL MIN, VOL 1 — VOL30, and VOL MAX.

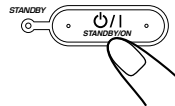


## 8 Press SET to complete the Daily Timer setting.

The DAILY (daily timer) indicator stops flashing and remains lit. The settings you have done are shown on the display in sequence for your confirmation.



## 9 Press ⏻/STANDBY/ON to turn off the unit (on standby) if you have set the Daily Timer with the unit turned on.



If the unit is turned on when the timer-on time comes Daily Timer does not work.

### To turn on or off Daily Timer after its setting is done

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



2 To turn off the Daily Timer, press CANCEL/DEMO.

The DAILY (daily timer) indicator goes off from the display ("OFF" appears for a while). The Daily Timer is canceled, but the setting for the Daily Timer remains in memory until you change it.



To turn on the Daily Timer, press SET.

The DAILY (daily timer) indicator lights up on the display. The settings you have done are shown on the display in sequence for your confirmation.



## Using Recording Timer

With Recording Timer, you can make a tape of a radio broadcast automatically. You can set the timer whether the unit is on or off.

### How Recording Timer actually works

The unit automatically turns on, tunes into the specified station, sets the volume level to "VOL MIN," and starts recording when the on-time comes (the ⏻ indicator flashes while the timer is operating). Then, when the off-time comes, the unit automatically turns off (stands by).

Recording Timer works only once, but 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 2 again.
- If you have made a mistake while setting the timer, press CANCEL/DEMO. (However, this does not always work. If CANCEL/DEMO does not work, press CLOCK/TIMER repeatedly and start from step 2 again.)

### On the unit ONLY:

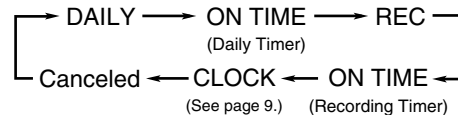
1 Put a recordable cassette into deck B.

2 Press CLOCK/TIMER repeatedly until "REC" appears on the display.

⏻ indicator lights up and the REC (recording timer) indicator starts flashing on the display.



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



3 Press CLOCK/TIMER again.

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

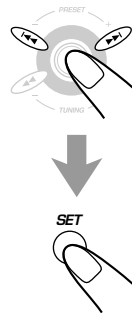






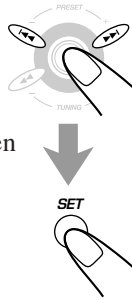
#### 4 Set the on-time you want the unit to turn on.

- 1) Press **◀** or **▶** to set the hour, then press **SET**.
- 2) Press **◀** or **▶** to set the minute, then press **SET**.  
“OFF TIME” appears for 2 seconds, then the unit enters off-time setting mode.



#### 5 Set the off-time you want the unit to turn off (on standby).

- 1) Press **◀** or **▶** to set the hour, then press **SET**.
- 2) Press **◀** or **▶** to set the minute, then press **SET**.  
The unit enters preset station selecting mode.

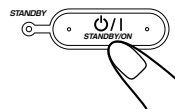


#### 6 Select the preset station.

- 1) Press **◀** or **▶** to select the band (“TUNER FM” or “TUNER AM”), then press **SET**.
- 2) Press **◀** or **▶** to select a preset channel number, then press **SET**.  
The REC (recording timer) indicator stops flashing and remains lit. The settings you have done are shown on the display in sequence for your confirmation.



#### 7 Press **⏻**/STANDBY/ON to turn off the unit (on standby) if necessary.



#### About the recording source

If you change the source while recording, the recording also changes.

#### To turn on or off Recording Timer after its setting is done

- 1 Press **CLOCK/TIMER** repeatedly until “REC” appears on the display.



- 2 To turn off the Recording Timer, press **CANCEL/DEMO**.



The REC (recording timer) indicator goes off from the display (“OFF” appears for a while). The Recording Timer is canceled, but the setting for the Recording Timer remains in memory until you change it.

**To turn on the Recording Timer, press SET.**  
The REC (recording timer) indicator lights up on the display. The settings you have done are shown on the display in sequence for your confirmation.



## Using Sleep Timer

With Sleep Timer, you can fall asleep to music. You can set Sleep Timer when the unit is turned on.

### How Sleep Timer actually works

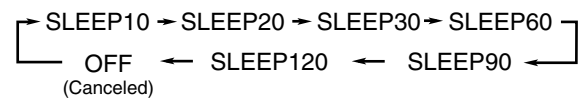
The unit automatically turns off after the specified time length passes.

### On the remote control ONLY:

#### 1 Press SLEEP.

The time length until the shut-off time appears and the SLEEP indicator starts flashing on the display.

- Each time you press the button, the time length changes as follows:



#### 2 Wait for about 3 seconds after specifying the time length.

The SLEEP indicator stops flashing and remains lit.

**To check the remaining time until the shut-off time,** press SLEEP once so that the remaining time until the shut-off time appears for about 3 seconds.

**To change the shut-off time,** press SLEEP repeatedly until the desired time length appears on the display.

**To cancel the setting,** press SLEEP repeatedly until “OFF” appears on the display so that the SLEEP indicator goes off from the display.

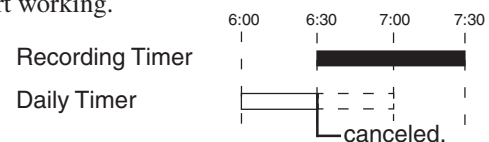
- Sleep Timer is also canceled when you turn off the unit.

## Timer Priority

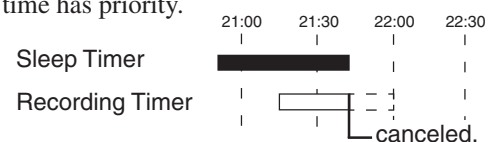
Since each timer can be set separately, you may wonder what happens if the setting for these timers overlaps. Here are some examples.

- **Recording Timer has priority over Daily Timer.**

If Recording Timer is set to come on while Daily Timer is operating, Daily Timer is canceled and Recording Timer start working.



- If Sleep Timer overlaps with another timer (either Daily Timer or Recording Timer), a timer with the earlier shut-off time has priority.



**When using the Recording Timer and Sleep Timer at the same time, pay special attention to the shut-off time.**

# Maintenance



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

## 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.

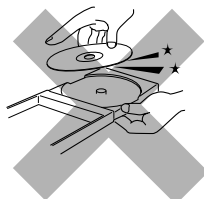
### • Avoid the following since they may cause damage to the unit.

- 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.

## Handling discs



- Remove the disc from its case by holding it at the edge while pressing the center hole lightly.
- Do not touch the shiny surface of the disc, or bend the disc.
- Put the disc back in its case after use to prevent warping.



- Be careful not to scratch the surface of the disc when placing it back in its case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.



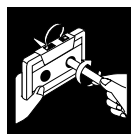
### To clean the disc

Wipe the disc with a soft cloth in a straight line from center to edge.



DO NOT use any solvent—such as conventional record cleaner, spray, thinner, or benzine—to clean the disc.

## Handling cassette tapes



- If the tape is loose in its cassette, take up the slack by inserting a pencil in one of the reels and rotating.
- If the tape is loose, it may get stretched, cut, or caught in the cassette.



- Be careful not to touch the tape surface.



- Avoid the following places to store the tape:
  - In dusty places
  - In direct sunlight or heat
  - In moist areas
  - Near a magnet



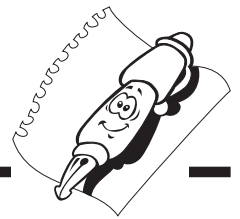
# Troubleshooting



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 display demonstration.	Other buttons are pressed to cancel the display demonstration.	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.)
Hard to listen to broadcasts because of noise.	<ul style="list-style-type: none"> <li>Antennas are disconnected.</li> <li>The AM loop antenna is too close to the unit.</li> <li>The FM antenna is not properly extended and positioned.</li> </ul>	<ul style="list-style-type: none"> <li>Reconnect the antennas correctly and securely.</li> <li>Change the position and direction of the AM loop antenna.</li> <li>Extend the FM antenna at the best position.</li> </ul>
The disc sound is discontinuous.	The disc is scratched or dirty.	Clean or replace the disc. (See page 24.)
The carousel does not open or close.	<ul style="list-style-type: none"> <li>The AC power cord is not plugged in.</li> <li>The carousel is locked.</li> </ul>	<ul style="list-style-type: none"> <li>Plug the AC power cord.</li> <li>Unlock the carousel. (See page 16.)</li> </ul>
The disc does not play.	The disc is placed upside down.	Place the disc with the label side up.
The cassette holders cannot be opened.	Power supply from the AC power cord has been cut off while the tape was running.	Turn on the unit.
Impossible to record.	Small tabs on the back of the cassette are removed.	Cover the holes with adhesive tape.
Stereo effect is lost.	Vocal Masking is activated.	Cancel the Vocal Masking. (See page 20.)
Operations are disabled.	The built-in microprocessor may malfunction due to external electrical interference.	Unplug the AC power cord and then plug it back in.
Unable to operate the unit from the remote control.	<ul style="list-style-type: none"> <li>The path between the remote control and the remote sensor on the unit is blocked.</li> <li>The batteries are exhausted.</li> </ul>	<ul style="list-style-type: none"> <li>Remove the obstruction.</li> <li>Replace the batteries.</li> </ul>



## Amplifier section — CA-MXK50

Output Power:

**100 W per channel, min. RMS, driven into 6  $\Omega$  at 1 kHz with no more than 10% total harmonic distortion.**

Audio input sensitivity/Impedance (at 1 kHz)

AUX: 400 mV/50 k $\Omega$

MIC: 5 mV/5 k $\Omega$

Speakers/Impedance: 6  $\Omega$  – 16  $\Omega$

## Tuner

FM tuning range: 87.50 MHz – 108.00 MHz

AM tuning range: 531 kHz – 1 602 kHz  
(at 9 kHz intervals)

530 kHz – 1 710 kHz  
(at 10 kHz intervals)

## CD player

CD Capacity: 3 CDs

Dynamic range: 85 dB

Signal-to-noise ratio: 85 dB

## Cassette deck

Frequency response

Normal (type I): 50 Hz — 14 000 Hz

Wow and flutter: 0.15% (WRMS)

## General

Power requirement: AC 110 V / AC 127 V / AC 220 V /  
AC 230 V — AC 240 V  $\sim$ , adjustable  
with the voltage selector, 50 Hz / 60 Hz

Power consumption: 120 W (at operation)  
17 W (on standby)

Dimensions (approx.): 270 mm x 317 mm x 449 mm (W/H/D)

Mass (approx.): 8.8 kg

## Supplied accessories

See page 6.

## Speaker section — SP-MXK50

Type: 3-way bass-reflex type

Speaker units: Woofer: 13.5 cm cone x1

Midrange: 5 cm cone x1

Tweeter: 2 cm dome x1

Power handling capacity: 100 W

Impedance: 6  $\Omega$

Frequency range: 32 Hz — 20 000 Hz

Sound pressure level: 81 dB/W•m

Dimensions (approx.): 228 mm x 318 mm x 255 mm (W/H/D)

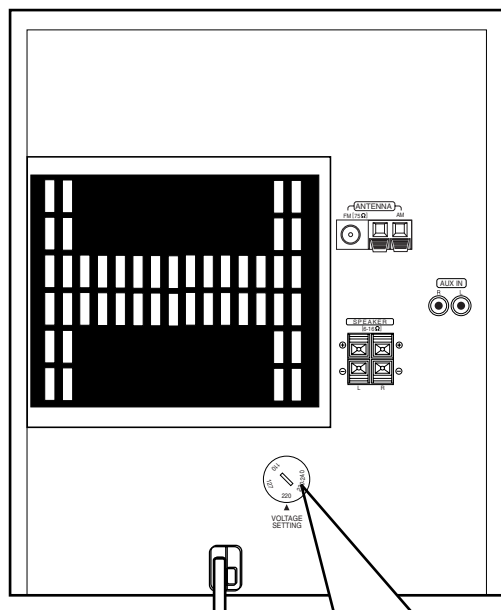
Mass (approx.): 3.5 kg each

Design and specifications are subject to change without notice.

**Mains (AC) Line Instruction (not applicable for Europe, U.S.A., Canada, Australia, and U.K.)**

**Instrucción sobre la línea de la red (CA) (no aplicable para Europa, EE.UU., Canadá, Australia, ni el Grã-Bretanha)**

**Instrução sobre a tensão da rede eléctrica (CA) (não aplicável para a Europa, os E.U.A., o Canadá, a Austrália e o Reino Unido)**

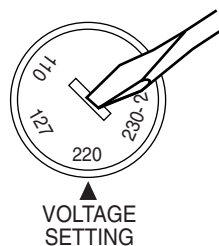


**IMPORTANT for mains (AC) line**

BEFORE PLUGGING IN, do check that your mains (AC) line voltage corresponds with the position of the voltage selector switch provided on the outside of this equipment and, if different, reset the voltage selector switch, to prevent from a damage or risk of fire/electric shock.

**IMPORTANTE para la línea de la red (CA)**

ANTES DE ENCHUFAR EL EQUIPO, compruebe si la tensión de la línea de la red (CA) corresponde con la posición del selector de tensión situado en la parte exterior del equipo, y si es diferente, reajuste el selector de tensión para evitar el riesgo de incendios/descargas eléctricas.



**IMPORTANTE para a ligação à tensão da rede (CA)**

ANTES DE LIGAR O APARELHO A UMA TOMADA DA REDE, verifique se a tensão da rede CA corresponde à posição do seletor de voltagem localizado na parte externa deste equipamento. Caso não corresponda, reajuste o seletor de voltagem a fim de evitar avarias ou riscos de incêndio e choque elétrico.

**JVC**  
VICTOR COMPANY OF JAPAN, LIMITED

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