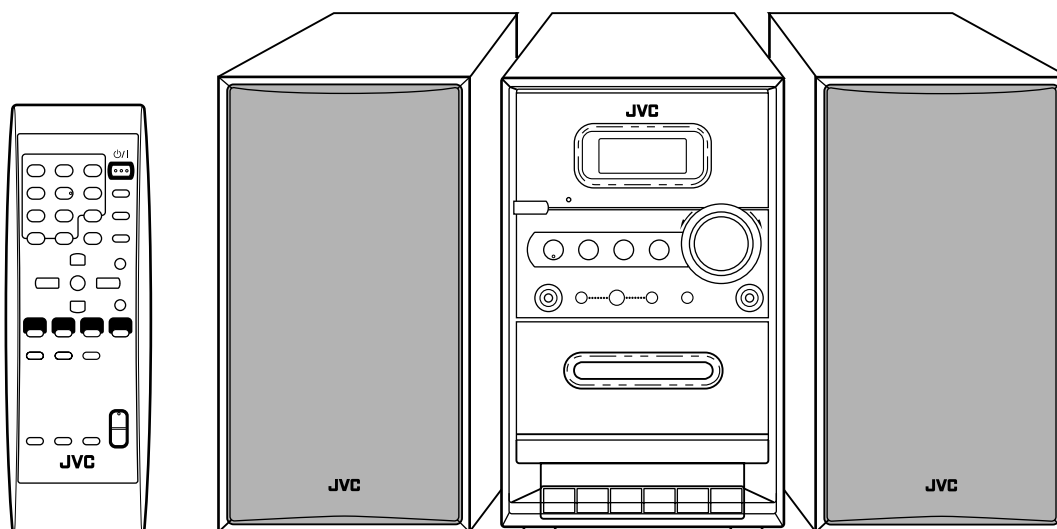


JVC



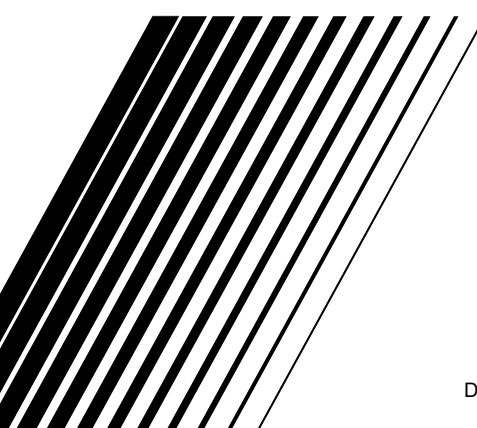
MICRO COMPONENT SYSTEM

UX-H100

—Consists of CA-UXH100 and SP-UXH100

COMPACT
disc
DIGITAL AUDIO


INSTRUCTIONS



LVT1190-010A
[UJ]

Warnings, Cautions and Others

CAUTION—/I STANDBY/ON button !

Disconnect the mains plug to shut the power off completely (all lamps and indications go off). The /I STANDBY/ON button in any position does not disconnect the mains line.

- When the unit is on standby, the STANDBY lamp lights red.
- When the unit is turned on, the STANDBY lamp goes off.

The power can be remote controlled.

CAUTION

To reduce the risk of electrical shocks, fire, etc.:

1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

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.

IMPORTANT FOR LASER PRODUCTS

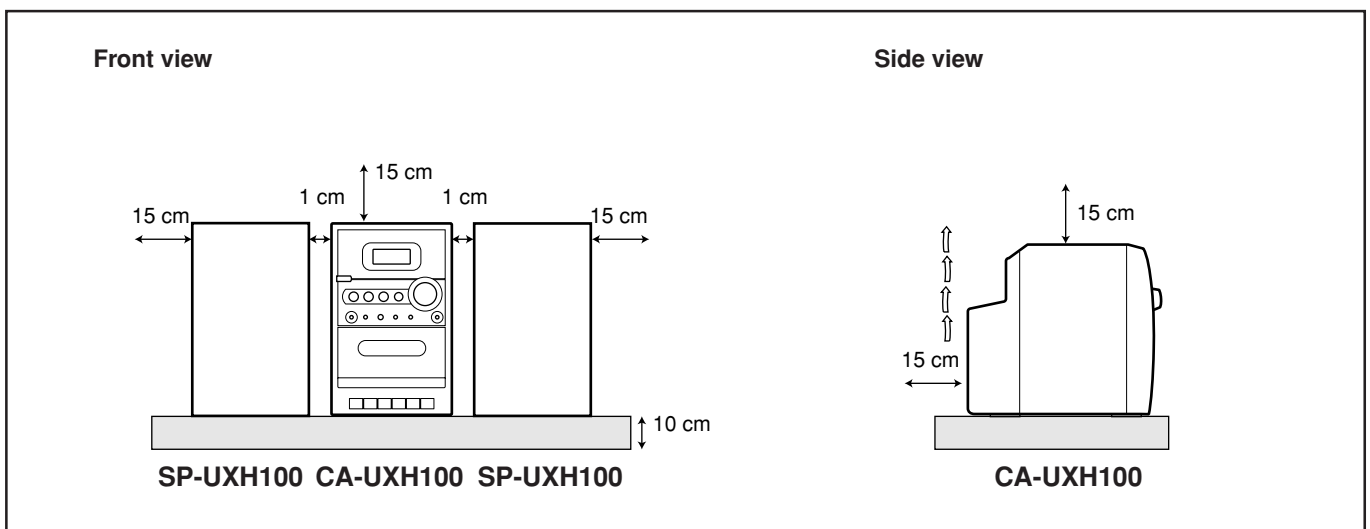
1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM.	ADVARSEL: Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling.	VARNING: Synlig og osynlig laserstråling når den öppnas och spärren är urkopplad. Betrakta ej strålen.	VARO: Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteiden kohdistumista suoraan itseesi! (f)
(e)	(d)	(s)	(f)

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 a level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.



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:

- This manual mainly explains operations using the buttons on the remote control. You can use the buttons both on the remote control and on the unit for the same operations if they have the same or similar names (or marks), unless mentioned otherwise.
- Basic and common information that is the same for many functions is grouped in one place, and is not repeated for 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 “Basic and Common Operations” on pages 8 and 9.
- The following symbols are used in this manual:



Gives you warning and caution to prevent damage or risk of fire/electric shock. In addition, we put information here about conditions which will prevent getting the best possible performance from the unit.



Gives you information and hints you need to know.

Precautions

Installation

- Install in a place which is level, dry and neither too hot nor too cold—between 5°C and 35°C.
- Install the unit in a location with adequate ventilation to prevent internal heat buildup.
- 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 the unit from the wall outlet, always pull on the plug, not the AC power cord.



DO NOT handle the AC power cord with wet hands.

Moisture condensation

Moisture may condense on the lenses inside the unit in the following cases:

- After starting to heat 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, then plug it in again.

Others

- Should any metallic object or liquid fall into the unit, unplug the AC power cord 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.

Contents

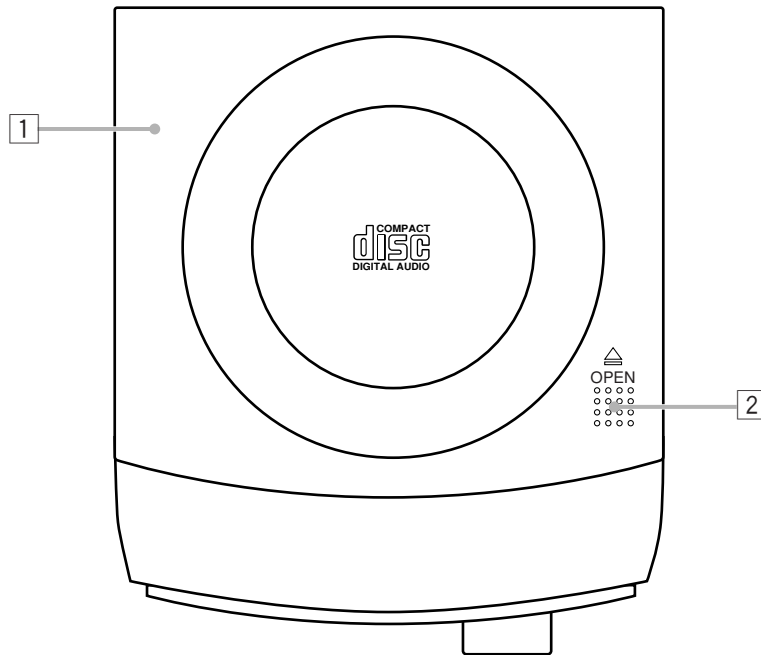
Location of the Buttons and Controls	3
Main Unit	3
Remote Control	5
Getting Started	6
Unpacking	6
Putting the Batteries into the Remote Control	6
Connections	6
Connecting Other Equipment	7
Adjusting the Voltage Selector	7
Basic and Common Operations	8
Setting the Clock	8
Turning On the Power	8
Selecting the Source	9
Adjusting the Volume	9
Fade Muting	9
Selecting the Sound Modes	9
Adjusting the Tone (Bass/Treble)	9
Listening to FM and AM Broadcasts	10
Setting the Tuner Interval Spacing	10
Tuning in to a Station	10
Presetting Stations	11
Tuning in to a Preset Station	11
Playing Back Discs	12
Playing Back the Entire Disc—Normal Play	12
Basic Disc Operations	13
Programming the Track Playing Order—Program Play	13
Repeating Tracks—Repeat Play	14
Playing at Random—Random Play	14
Displaying the Remaining Time during Playback	14
Playing Back Tapes	15
Playing Back a Tape	15
Using an External Equipment	16
Listening to the External Equipment	16
Recording	17
Recording on a Tape	17
Recording Discs—Disc Synchronized Recording	18
Using the Timers	19
Using the Daily Timer	19
Using the Sleep Timer	20
Maintenance	21
Troubleshooting	22
Specifications	22

Location of the Buttons and Controls

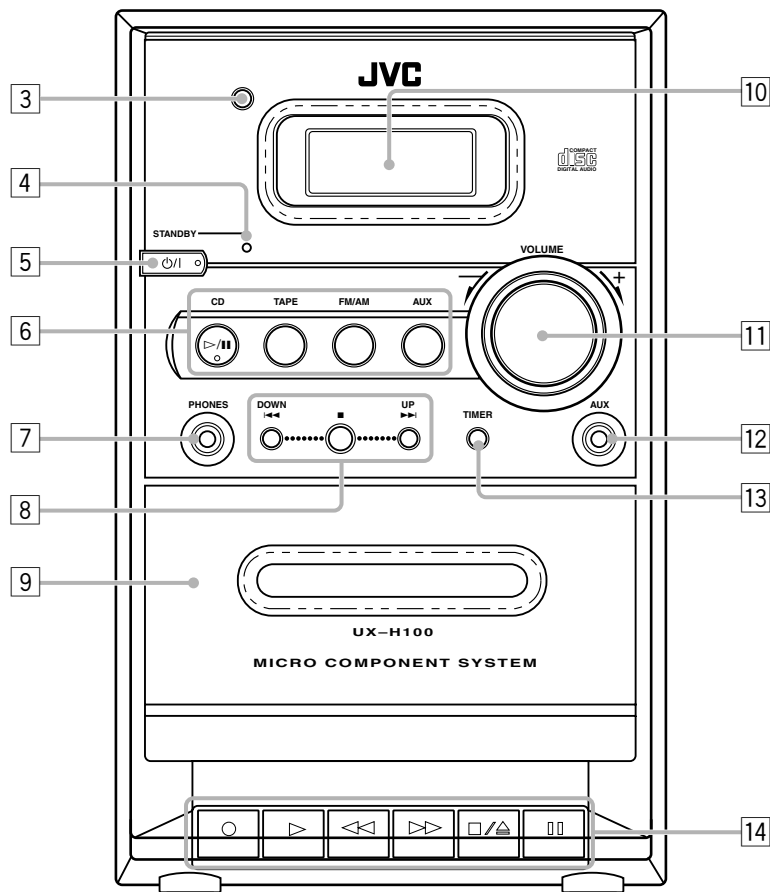
Become familiar with the buttons and controls on your unit.

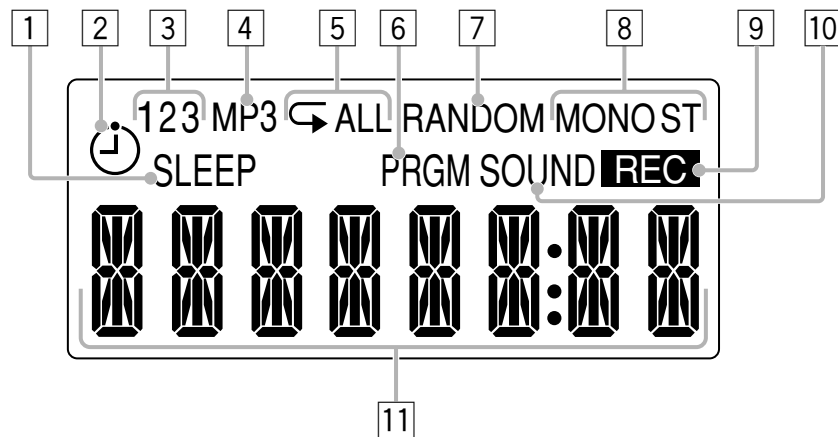
Main Unit

Top view



Front view



Display window

See pages in parentheses for details.

Main unit

- 1 Disc cover (12)
- 2 ▲ OPEN (disc cover open) (12)
- 3 Remote sensor (5)
- 4 STANDBY lamp (8)
- 5 ⏻/⏻ (STANDBY/ON) button (8, 19)
- 6 Source buttons
 - CD ▷/⏻, TAPE, FM/AM, AUX*Pressing one of these buttons also turns on the unit.*
- 7 PHONES jack (9)
- 8 MULTI CONTROL buttons
 - DOWN ◀◀, ■, UP ▶▶
- 9 Cassette holder (15)
- 10 Display window
- 11 VOLUME control (9)
- 12 AUX jack (7, 17)
- 13 TIMER button (20)
- 14 Tape operation buttons (15, 17)
 - ○ (recording), ▷ (play), ◀◀ (fast backward),
 - ▶▶ (fast forward), ◻/⏻ (stop/cassette holder open),
 - ⏸ (pause)

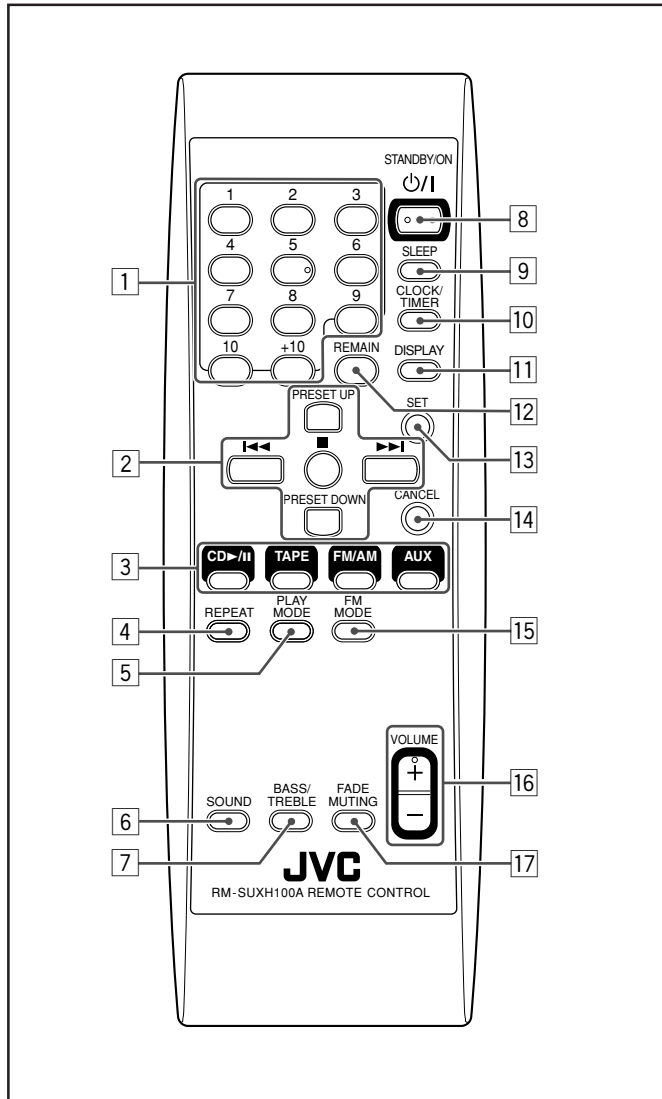
Display window

- 1 SLEEP indicator
- 2 ⌚ (timer) indicator
- 3 Timer number indicators
- 4 MP3 indicator
- 5 Repeat indicators
 - ↻, ALL
- 6 PRGM (program) indicator
- 7 RANDOM indicator
- 8 FM mode indicators
 - MONO, ST (stereo)
- 9 REC indicator
- 10 SOUND indicator
- 11 Main display

Location of the Buttons and Controls (continued)

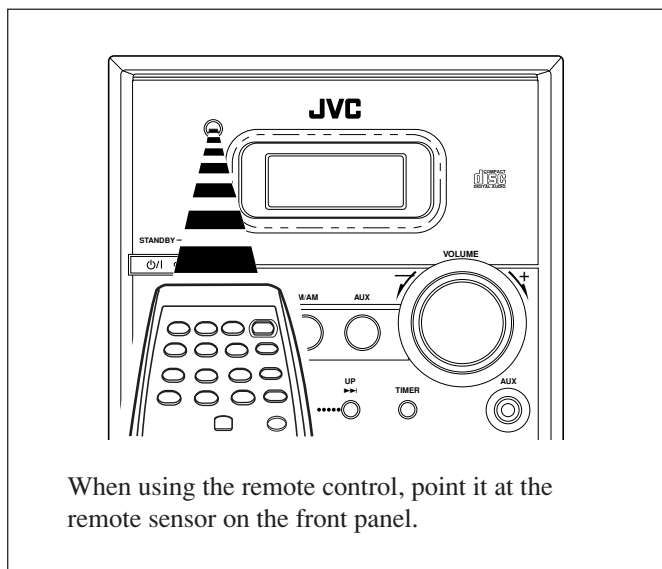
Remote Control

See pages in parentheses for details.



- 1 Number buttons (10, 11, 13)
- 2 Multi control buttons
 - PRESET UP, PRESET DOWN
 - ◀◀, ■, ▶▶
- 3 Source buttons
 - CD ▷/⏏, TAPE, FM/AM, AUX

Pressing one of these buttons also turns on the unit.
- 4 REPEAT button (14)
- 5 PLAY MODE button (11, 13, 14)
- 6 SOUND button (9)
- 7 BASS/TREBLE button (9)
- 8 STANDBY/ON ⏏/⏻ button (8, 10, 19)
- 9 SLEEP button (20)
- 10 CLOCK/TIMER button (8, 19)
- 11 DISPLAY button (8)
- 12 REMAIN button (14)
- 13 SET button (8, 19)
- 14 CANCEL button (19)
- 15 FM MODE button (10)
- 16 VOLUME + / - buttons (9)
- 17 FADE MUTING button (9)



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.

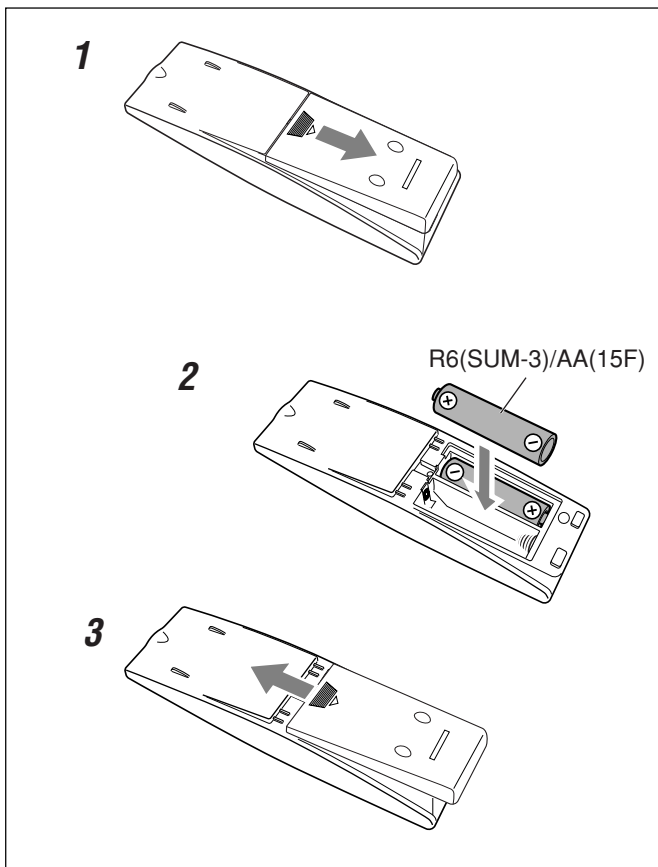
The number in parentheses indicates the quantity of each piece supplied.

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

If any item is missing, consult your dealer immediately.

Putting the Batteries into the Remote Control

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

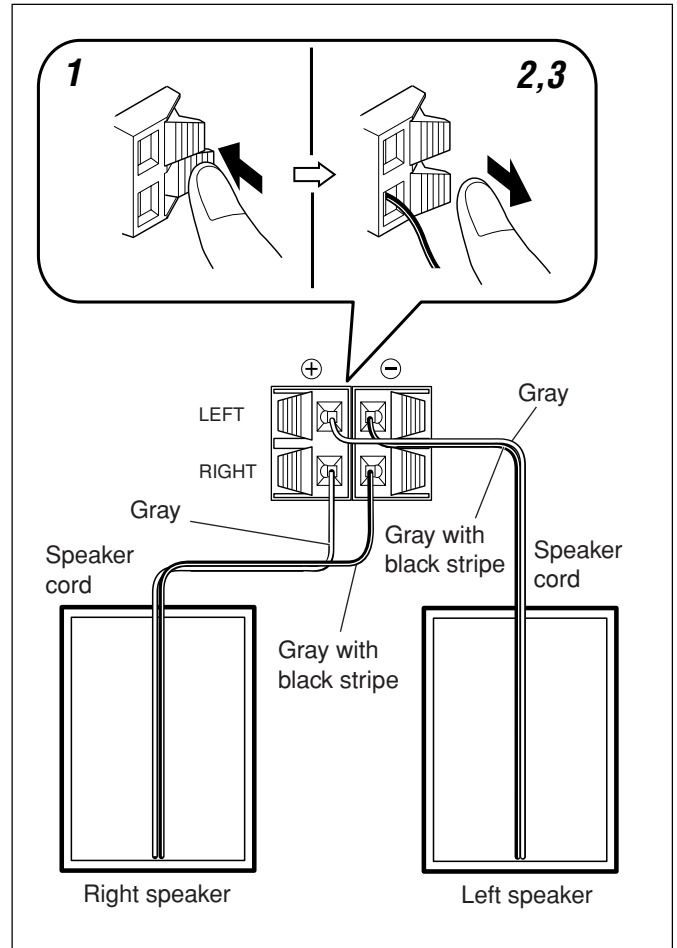


- DO NOT use an old battery together with a new one.
- DO NOT use different types of batteries together.
- DO NOT expose batteries to heat or flame.
- DO NOT leave the batteries in the battery compartment when you are not going to use the remote control for an extended period of time. Otherwise, the remote control will be damaged from battery leakage.

Connections

To connect speakers

You can connect the speakers using the speaker cords.



1 Hold the clamp of the speaker terminal.

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

Match the polarity of the speaker terminals: gray cord (+) to red (+) and gray cord with black stripe (-) to black (-).

3 Release your finger from the clamp.

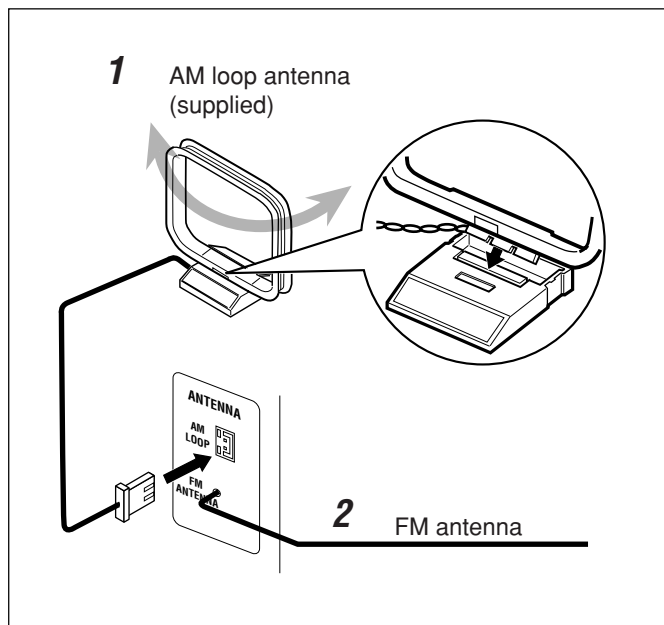
IMPORTANT:

- 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.

Getting Started (continued)

Do not connect the AC power cord until all other connections have been made.

To connect AM and FM antennas



1 Connect the supplied AM loop antenna to the AM LOOP terminal.

Place the antenna away from the unit and adjust its position for the best reception.

2 Adjust the position for the FM antenna for the best reception.



For better reception of both FM and AM

- Make sure the antenna conductors do not touch any other terminals or connecting cords.
- Keep the antennas away from metallic parts of the unit, connecting cords, and the AC power cord.

Connecting Other Equipment

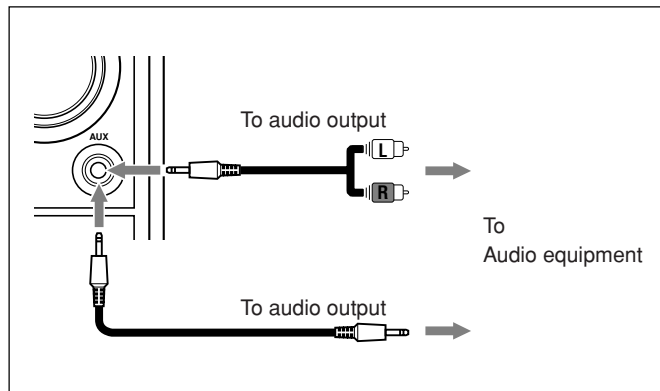
To connect audio equipment

You can connect audio equipment—used only as a playback device.



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

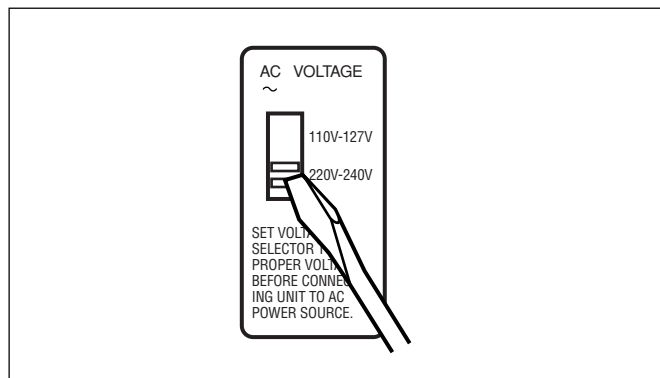
For playing other equipment through this unit, connect between the audio output jacks on the other equipment and AUX jacks by using audio cords with mini plugs (not supplied).



When the audio equipment has pin jacks for audio output: Be sure that the pin plugs of the audio cords are colored—white plugs and jacks are for left audio signals, and red ones for right audio signals.

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 screwdriver to move the voltage selector so the voltage number is the same as the voltage where you are plugging in the unit. (See the back cover page.)



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

NOW you are ready to plug in the unit.

- If the wall outlet does not match the AC plug, use the supplied AC adaptor.

IMPORTANT:

Be sure to check that all connections have been made before plugging in the power cord.

Setting the Clock

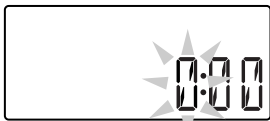
Before operating the unit any further, first set the unit's clock. When you plug in the power cord, "0:00" starts flashing on the display.

You can set the clock when the unit is either turned on or in standby mode.

On the remote control ONLY:

1 Press CLOCK/TIMER.

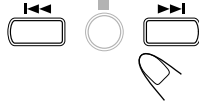
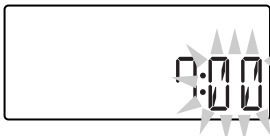
The hour indication starts flashing.



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

- When you press and hold ◀◀ or ▶▶, the hour indication changes continuously.

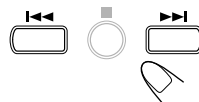
The minute indication starts flashing.



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

- When you press and hold ◀◀ or ▶▶, the minute indication changes continuously.

The built-in clock starts.



- When you unplug the AC power cord or if a power failure occurs**
The clock is reset to "0:00" right away. If this happens, set the clock again.
- The clock may gain or lose 1 to 2 minutes per month**
If this happens, reset the clock.

To show the clock when the unit is turned on

On the remote control ONLY:

Press DISPLAY.

- Each time you press the button, the display changes the clock indication and the normal indication alternately.



To adjust the clock

On the remote control ONLY:

1 Press CLOCK/TIMER repeatedly to show the current time indication.

- When the unit is in standby mode, be sure that ":" is not flashing.



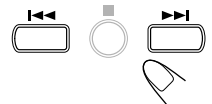
2 Press SET.

The hour indication starts flashing.



3 Press ◀◀ or ▶▶ to adjust the hour, then press SET.

The minute indication starts flashing.



4 Press ◀◀ or ▶▶ to adjust the minute, then press SET.

The built-in clock starts.




Turning On the Power

To turn on the unit, press STANDBY/ON .

The STANDBY lamp on the unit goes off.

- When you press the source button—CD ▶/||, TAPE, FM/AM and AUX, the unit automatically turns on.



To turn off the unit (standby), press STANDBY/ON  again.

The STANDBY lamp on the unit lights red.

- "0:00" flashes on the display until you set the built-in clock. After setting the clock, the clock time will appear on the display while the unit is on standby.
- A little power is always consumed even while the unit is in standby mode.

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 "0:00" right away and "0:00" starts flashing on the display when plugging the power cord again. If this happens, set the clock again.

Basic and Common Operations (continued)

Selecting the Source

To select the source, press CD ►/II, TAPE, FM/AM, or AUX.

- When you select CD as the source, playback starts automatically.

To operate the tuner (FM or AM), see pages 10 and 11.

To operate the CD player, see pages 12 to 14.

To operate the tape deck, see page 15.

To record on a tape, see pages 17 and 18.

To use an external equipment, see page 16.

Adjusting the Volume

You can adjust the volume level only while the unit is turned on. The volume level can be adjusted between “VOL MIN,” “VOL 01” – “VOL 30,” and “VOL MAX.”

- The volume level has no effect on recording.

To increase the volume, press VOLUME + (or turn VOLUME control clockwise on the unit).

To decrease the volume, press VOLUME – (or turn VOLUME control counterclockwise on the unit).

- When you press and hold either button, you can change the volume level continuously.



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 the headphones.



DO NOT turn off (standby) the unit with the volume set to an extremely high level; Otherwise, the sudden blast of sound can damage your hearing, speakers and/or headphones when you turn on the unit or start playing any source. REMEMBER you cannot adjust the volume level while the unit is in standby mode.

Fade Muting

On the remote control ONLY:

Press FADE MUTING.

The volume level decreases to “VOL MIN,” and “MUTING” starts flashing on the display.

To release muting, press FADE MUTING again. The volume level resumes to the previous level.

- Adjusting the volume level also cancels the muting.



Selecting the Sound Modes

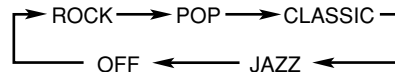
You can select one of the 4 sound modes.

- This function also affects the sound from headphones.
- This function only affects the playback sound, and does not affect your recording.

On the remote control ONLY:

To select the sound modes, press SOUND repeatedly.

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



ROCK: Powerful sound emphasizing treble and bass.

POP: More presence in the vocals and midrange.

CLASSIC: Enriched sound with fine treble and ample bass.

JAZZ: Accented lower frequencies for jazz-type music.

OFF: Equalizer effect is canceled.

When the sound mode is activated, the SOUND indicator lights up on the display.

Adjusting the Tone (Bass/Treble)

You can adjust the bass level (low frequency range) and the treble level (high frequency range) within a range of –1 to +4. When shipped, the bass level set to “BASS 0” and the treble level set to “TREBLE 0.”

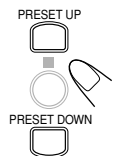
- This function only affects the playback sound, and does not affect your recording.
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start over from step 1.

On the remote control ONLY:

1 Press BASS/TREBLE once to adjust the bass level or press BASS/TREBLE twice to adjust the treble level.



2 Press PRESET UP to increase the level or press PRESET DOWN to decrease it.



- You cannot use the tone adjustment function and the sound mode function at the same time. (The sound mode changes automatically into “OFF” when pressing BASS/TREBLE.)
- The bass/treble setting automatically returns to “0” when you select one of the sound modes (see “Selecting the Sound Modes” above).

Setting the Tuner Interval Spacing

You can select 10 kHz or 9 kHz apart for the AM tuner interval spacing and 100 kHz or 50 kHz apart for the FM tuner interval spacing.

- The interval settings of AM and FM change together.

AM 10 kHz, FM 100 kHz ↔ AM 9 kHz, FM 50 kHz

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

On the remote control ONLY:

1 Press **STANDBY/ON**  to turn off the unit (standby).



2 Press and hold **■** for a few seconds.

The current interval setting appears on the display.



AM 10 kHz, FM 100 kHz

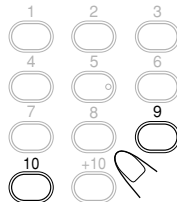


AM 9 kHz, FM 50 kHz



3 Press **10** or **9** to select the interval setting for your area.

- **10**: Sets the interval to 10 kHz (AM) and 100 kHz (FM).
- **9**: Sets the interval to 9 kHz (AM) and 50 kHz (FM).



The new interval setting appears on the display for a few seconds.



When you change the setting

The preset stations are erased. You will need to preset the stations again. (See page 11.)

Tuning in to a Station

1 Press **FM/AM** to select either “FM” or “AM.”



The unit automatically turns on and tunes in to the previously received station—either FM or AM.

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

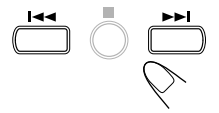
FM 50 kHz interval



FM 100 kHz interval



2 Press and hold **▶▶▶** or **◀◀◀** (or **UP ▶▶▶** or **DOWN ◀◀◀** on the unit) for more than 1 second.



- **▶▶▶** (UP **▶▶▶**): Increases the frequencies.
- **◀◀◀** (DOWN **◀◀◀**): Decreases the frequencies.

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

- If an FM program is broadcast in stereo, the **ST** (stereo) indicator lights up on the display (only when the reception is good).

To stop during searching, press **▶▶▶** or **◀◀◀** (or **UP ▶▶▶** or **DOWN ◀◀◀** on the unit).



When you repeatedly press **▶▶▶ or **◀◀◀** (or **UP ▶▶▶** or **DOWN ◀◀◀** on the unit)**

The frequency changes step by step.

To change the FM reception mode

On the remote control ONLY:

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

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

- Changing the station also cancels the **MONO** mode.

Listening to FM and AM Broadcasts (continued)

Presetting Stations

You can preset 30 FM and 15 AM stations manually.

In some cases, test frequencies have been already stored 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 again from step 2.

On the remote control ONLY:

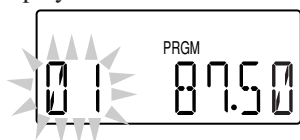
1 Tune in to the station you want to preset.

- See "Tuning in to a Station" on page 10.

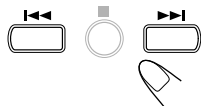
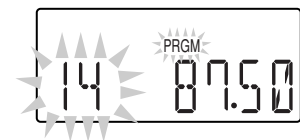
2 Press PLAY MODE.

The preset number starts flashing on the display.

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

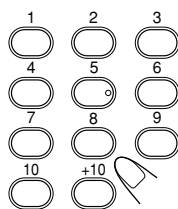


3 Press >>> or <<< to select a preset number.



You can also use the number button(s) to select a preset number.

- 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 30, press +10, +10, then 10.



4 Press PLAY MODE again.



5 To preset more stations, repeat steps 1 to 4 above, allocating a different preset number to each station.

- Storing a new station on an already assigned number erases the previously stored one.



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

The preset stations will remain in the unit.

Tuning in to a Preset Station

On the remote control ONLY:

1 Press FM/AM to select either "FM" or "AM."



The unit automatically turns on and tunes in to the previously received station—either FM or AM.

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

2 Press PRESET UP or PRESET DOWN repeatedly to select a preset number.



To tune in to a preset station directly using the number buttons

On the remote control ONLY:

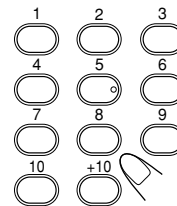
Pressing the number button(s) allows you to select the preset number you want.

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 30, press +10, +10, then 10.



This unit has been designed to play back the following discs—CD, CD-R, and CD-RW.

You can play back the discs containing the tracks in music CD format or MP3 files in ISO 9660 format.

- In this instruction, we call a disc recorded MP3 files “MP3 disc,” and “file” is also referred to as “track.”

When playing CD-Rs or CD-RWs

- Before playing CD-Rs or CD-RWs, read their instructions or cautions carefully.
- User-edited CD-Rs (CD-Recordable) and CD-RWs (CD-ReWritable) can be played only if they are already “finalized.”
- This unit supports “multi-session” discs (up to 5 sessions).
- This unit cannot play “packet write” discs.
- Some CD-Rs or CD-RWs may not play on this unit because of their disc characteristics, damage or stain on them, or if the player’s lens is dirty.
- CD-RWs may require a longer readout time. This is because the reflectance of CD-RWs is lower than for regular discs.

Notes for MP3 files

- The player can only recognize files with “MP3” or “mp3” as the extensions, which can be in any combination of upper and lower case.
- This unit recognizes up to 500 MP3 files on a disc.
- It is recommended that you record your material at a 44.1 kHz sampling rate, using the 128 kbps data transfer rate.
- Some MP3 files or discs may not be played back because of their characteristics or recording conditions.
- MP3 discs requires a longer readout time than normal discs because of the complexity of the folder/file configuration.
- ID3 Tag is not available.
- MP3i and MP3 Pro are not available.

General notes

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

- Store discs in their cases, and keep them in cabinets or on shelves.
- Keep the unit’s disc tray closed when not in use.
- Continued use of irregular shape discs (heart-shape, octagonal, etc.) can damage the unit.



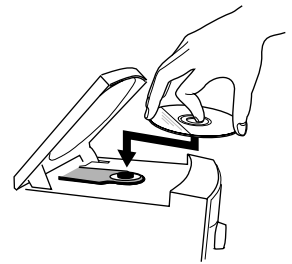
Playing Back the Entire Disc—Normal Play

1 Press OPEN on the unit.

The disc cover opens.

- You can insert a disc while listening to another source.

2 Place a disc correctly with its label side up, then press down on the portions around the disc’s center hole until you hear a click.



3 Close the disc cover gently.

4 Press CD ▶/II.

The unit automatically turns on and the source changes to the CD player. After loading the disc, the first track of the disc starts playing.



When playing audio CD

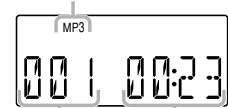
Current track number



Elapsed playing time

When playing MP3 disc

MP3 indicator



Current track number Elapsed playing time

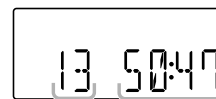
- The disc automatically stops when the last track has finished playing.

To stop playing, press .

The total track number and total playing time appear on the display.

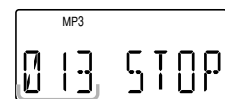


When stop playing audio CD




Total track number Total playing time

When stop playing MP3 disc



Total track number

- Total playing time does not appear when MP3 disc is loaded.

To remove the disc, press  OPEN on the unit, then take out the disc by holding it at the edges while pressing the unit’s pivot lightly.



- If the disc cannot be read correctly (because it is scratched, for example) or an unreadable CD-R or CD-RW is inserted Playback will not start.
- If no disc is inserted “NO DISC” appears on the display.



DO NOT try to open the disc cover by hand as it will be damaged.

Playing Back Discs (continued)

Basic Disc Operations

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

To stop playing for a moment

During play, press CD ►/||.

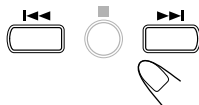
While pausing, the elapsed playing time flashes on the display.



To resume playing, press CD ►/|| again.

To go to another track

Before or during play, press ►►| or |◄◄ (or UP ►►| or DOWN |◄◄ on the unit) repeatedly.



- ►►| (UP ►►|): Skips to the beginning of the next or succeeding tracks.
- |◄◄ (DOWN |◄◄): Goes back to the beginning of the current or previous tracks.

To go to another track directly using the number buttons

On the remote control ONLY:

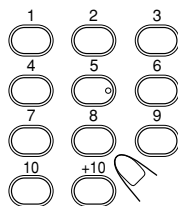
Pressing the number button(s) before or during play allows you to start playing the track number you want.

Ex.: For track number 5, press 5.

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

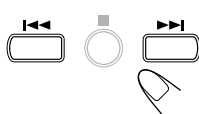
For track number 20, press +10, then 10.

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



To locate a particular point in a track

During play, press and hold ►►| or |◄◄ (or UP ►►| or DOWN |◄◄ on the unit).



- ►►| (UP ►►|): Fast-forwards the tracks.
- |◄◄ (DOWN |◄◄): Fast-reverses the tracks.

Programming the Track Playing Order —Program Play

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

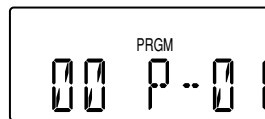
On the remote control ONLY:

1 Place a disc.

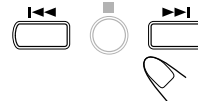
- If the current source is not the CD player, press CD ►/||, then ■ before going to the next step.

2 Press PLAY MODE.

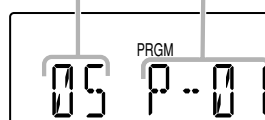
The PRGM (program) indicator appears on the display.



3 Press ►►| or |◄◄ to select the track number, then press PLAY MODE.

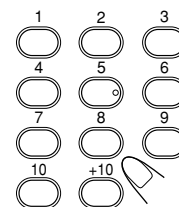


Track number Program step number



You can also use the number button(s) to select a track number.

- For the operation of the number buttons, see "To go to another track directly using the number buttons" on the left column.



4 Repeat step 3 to program other tracks you want.

5 Press CD ►/||.

The tracks are played in the order you have programmed.



After programming a 32nd track

"FULL" will appear on the display for a while and the 32nd track number appears again.

To stop playing, press ■.

Playback stops and the play mode returns to Normal Play.



To check the program contents

You can check the program contents by pressing PLAY MODE repeatedly before or after playback.



To modify the program

Press PLAY MODE repeatedly until the program step number you want to modify appears. Then follow steps **3** and **4** of the programming procedure.



To add tracks in the program, press PLAY MODE repeatedly until "00" appears as the track number. Then follow steps **3** and **4** of the programming procedure.

To clear the program

Press PLAY MODE, then press ■ before or after playback.

The PRGM indicator disappears from the display.

- The programmed tracks are also erased in the following cases:
 - When pressing ▲ OPEN to open the disc cover.
 - When turning off the unit.
 - When changing the source.



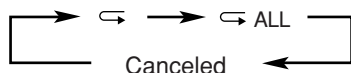
Repeating Tracks—Repeat Play

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

On the remote control ONLY:

Press REPEAT repeatedly before or during playback.

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



Repeat indicators



- ↶: Repeats one track.
- ↶ ALL: In Normal Play, repeats all the tracks. In Program Play, repeats all the tracks in the program.

To cancel Repeat Play, press REPEAT repeatedly until the repeat indicator goes off.

- Repeat Play is canceled when you select another play mode (Normal, Program, or Random Play).
- In Random Play, Repeat Play cannot be selected.



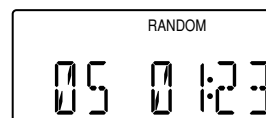
Playing at Random—Random Play

You can play the tracks at random.

On the remote control ONLY:

Press PLAY MODE during playing.

The RANDOM indicator lights up on the display.



To exit from Random Play, press PLAY MODE again.

The RANDOM indicator goes off.

- It is not possible to activate the Random Play function during Program Play.



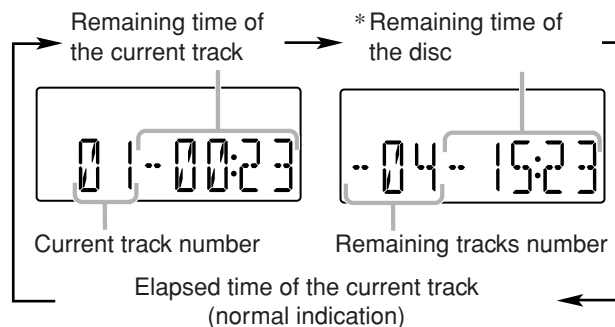
Displaying the Remaining Time during Playback

You can display the remaining time of the current track/disc and the elapsed time of the current track/disc during playing.

On the remote control ONLY:

Press REMAIN repeatedly.

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



* Remaining time of the disc will not be displayed in the following cases:

- During MP3 playback.
- During Random Play.
- During Program Play.

Playing Back Tapes

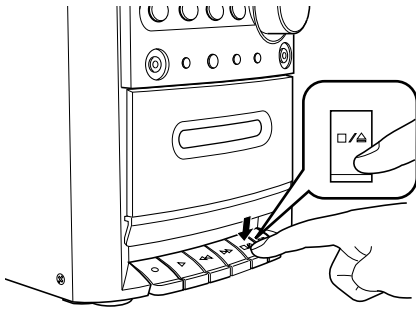
For tape operations, use buttons on the unit.

Playing Back a Tape

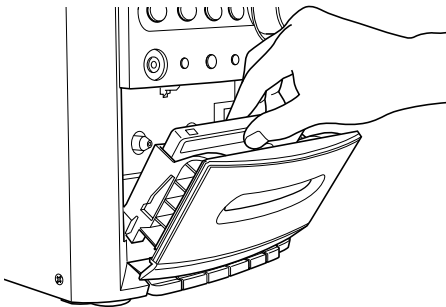
You can play back type I tapes only.

On the unit ONLY:

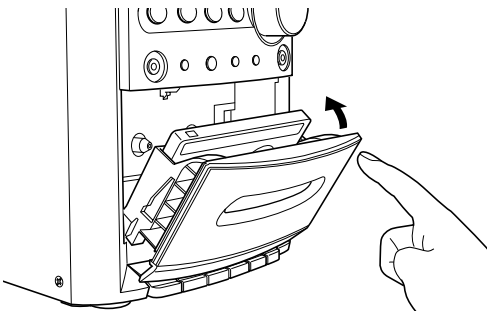
- 1** Press □/△ (stop/cassette holder open).
The cassette holder opens.



- 2** Put a cassette in with the exposed part of the tape down.



- 3** Close the cassette holder gently.



- 4** Press TAPE.

The unit automatically turns on and the source changes to the tape deck.

- You can select to the tape by pressing TAPE on the remote control.

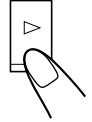
TAPE



- 5** Press ▷ (play).

The tape starts playing.

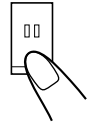
- When the end of the tape is reached, playing stops.



To stop playing, press □/△.

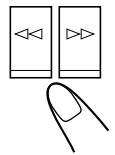


To stop playing for a moment, press |||. To resume playing, press ||| again.

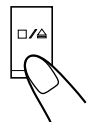


To fast forward or rewind the tape, press ▷▷ or ◁◁.

- The fast forwarding or rewinding stops at the end of the tape.



To remove the cassette, press □/△ while playback is stopped.



- DO NOT turn off the unit while playing back or recording a tape. The cassette deck or tapes may be damaged.
- The use of C-120 or longer tape is not recommended, since characteristic deterioration may occur and this tape easily jams in the pinch rollers and the capstans.
- This unit is not compatible with type II and type IV tapes.

Using an External Equipment

Listening to the External Equipment

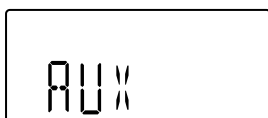
You can listen to the external equipment such as MD recorder, cassette deck, or other auxiliary.

- First, make sure that the external equipment is properly connected to the unit. (See page 7.)

1 Set the volume level to the minimum position.

2 Press AUX.

“AUX” appears on the display.



3 Start playing the external equipment.

4 Adjust the volume level to the level you want to listen to.

To exit AUX mode, select other source.



For operation of the external equipment

Refer to its instructions.

Recording

IMPORTANT:

- It may be unlawful to record or playback copyright material without the consent of the copyright owner.
- The recording level is automatically set correctly, so it is not affected by the other sound settings. Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
- If recordings you have made have excessive noise or static, the unit may be too close to a TV. Increase the distance between the TV and the unit.
- You can only use type I tape for recording.



- DO NOT turn off the unit while playing back or recording a tape. The cassette deck or tapes may be damaged.
- DO NOT use type II and type IV tapes since the unit is not compatible with such tapes.
- The use of C-120 or longer tape is not recommended, since characteristic deterioration may occur and this tape easily jams in the pinch rollers and the capstans.



At the start and end of cassette tapes

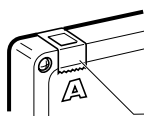
There is leader tape which cannot be recorded onto. Thus, when recording from discs, FM/AM broadcasts, or external equipment, wind the leader tape first to ensure that the recording will be made without losing any music.

To protect your recordings

Cassettes have two small tabs on the back to protect against 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.



Adhesive tape

Recording on a Tape

On the unit ONLY:

1 Put a recordable cassette in with the exposed part of the tape down.

- See also page 15.

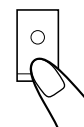
2 Close the cassette holder gently.

3 Start playing the source—FM, AM, or auxiliary equipment connected to AUX jack.

- When the source is FM or AM, tune in to the station you want to record.
- When recording from discs, see “Recording Discs—Disc Synchronized Recording” on page 18.

4 Press \circ (recording).

- \circ and \triangleright lock down, and the recording starts.
- REC indicator is shown on the display during recording.

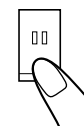


You cannot press \circ (recording) in the following cases:

- If no cassette is inserted.
- If a protected tape is inserted.

To stop recording for a moment, press $\square\square$.

To resume recording, press $\square\square$ again.



To stop recording, press \square/\triangle .



To remove the cassette, press \square/\triangle while recording is stopped.



Recording Discs

—Disc Synchronized Recording

You can start disc play and recording at the same time.

On the unit ONLY:

1 Put a recordable cassette in with the exposed part of the tape down.

- See also page 15.

2 Close the cassette holder gently.

3 Press CD ►/II to select the CD player as the source.

CD



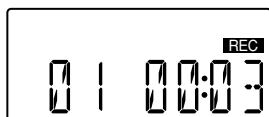
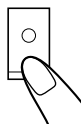
4 Press ■ to stop the disc playback.

- If you want to start recording from a particular track, select the beginning track using UP ►► or DOWN ◀◀, then go to the next step.
- If you want to make a program, perform steps 2 to 4 on page 13. After making a program, go to the next step.



5 Press ○ (recording).

The REC indicator appears on the display and the CD starts playback automatically and the recording starts.



- When the end of the tape is reached, recording stops and the CD player is paused.
- If you press ○ (recording) while playing back the CD, the CD player returns to the beginning of that track and the track is recorded on the tape.



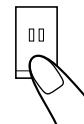
You cannot press ○ (recording) in the following cases:

- If no cassette is inserted.
- If a protected cassette is inserted.

To stop recording for a moment, press ○.

The recording is paused, but the CD playback does not stop.

To resume recording, press ○ again.



To stop recording, press □/△.

The recording stops and the CD playback is paused.



To remove the cassette, press □/△ while recording is stopped.



Using the Timers

Daily Timer and Sleep Timer are available.

- Before using these timers, make sure the built-in clock is set correctly (see page 8).

Using the Daily Timer

You can store three Daily timer settings and use one of settings at once.

How the Daily Timer actually works

When the on-time comes, the unit automatically turns on and automatically turns off (standby) after 60 minutes.

- Once the timer has been set, it will be activated at the same time everyday until the timer is turned off and the timer setting remains in memory until you change it.

Before you start...

When using "TUNER" as the source to play, make sure to select the desired station before turning off the power.

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

On the remote control ONLY:

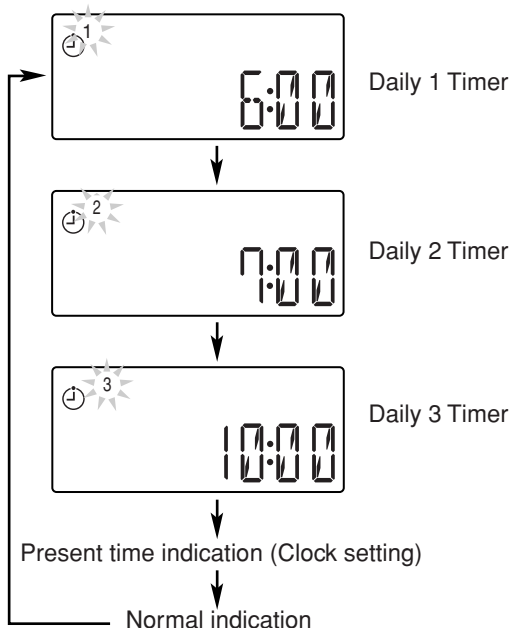
- 1 Press **STANDBY/ON** to turn on the unit.



- 2 Press **CLOCK/TIMER** repeatedly to select the Daily Timer you want to adjust and activate—Daily 1, Daily 2, Daily 3.



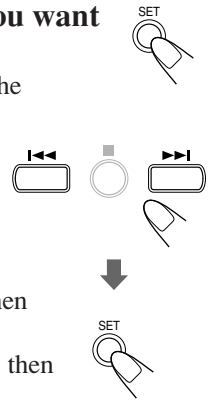
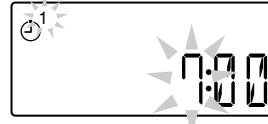
Each time you press the button, the display changes as follows:



If you does not need to change the on-time setting, go to step 3.

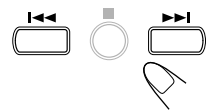
- 3 Press **SET** to set the on-time you want the unit to turn on.

The hour indication starts flashing on the display.

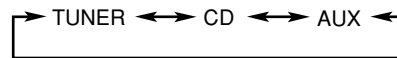


- (1) Press **▶▶** or **◀◀** to set the hour, then press **SET**.
 - (2) Press **▶▶** or **◀◀** to set the minute, then press **SET**.
- If you want to change the time setting, press **CANCEL**.

- 4 Press **▶▶** or **◀◀** to select the source to play.



Each time you press the button, the source changes as follows:



When selecting **AUX**, prepare the external equipment so that it will turn on at the on-time set on the unit.

To allow this, the equipment should have the timer function.

If you want to change the time setting, press **CANCEL** repeatedly to return Step 3.

- 5 Press **SET**.

The Daily Timer number remains lit. The display returns to the normal indication.



- When you want to activate other timer than the adjusted one, press **TIMER** on the unit repeatedly. See also "To change the Daily Timer to use" on page 20 for details.

- 6 Press **VOLUME +/-** to adjust the volume.



- 7 Press **STANDBY/ON** to turn off the unit.



To deactivate the timer temporarily, press TIMER on the unit repeatedly until the ⏸ (timer) indicator goes off.

To change the Daily Timer to use, press TIMER on the unit repeatedly until the timer number indicator you want begins to flash. The timer is activated after a few seconds and the selected timer number remains lit.

- To change the timer setting, repeat steps 1 to 7 on page 19.

notes If the unit is already turned on when the timer on-time comes
The timer does not work.

notes When you unplug the AC power cord or if a power failure occurs
The timer setting remains. Set the built-in clock and activate the timer again.

Using the Sleep Timer

With the Sleep Timer, you can fall asleep to your favorite music or radio program.

- You can set the Sleep Timer only when the unit is turned on.

How the Sleep Timer actually works

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

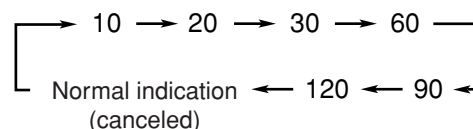
On the remote control ONLY:

1 Press SLEEP.

The SLEEP indicator flashes on the display.



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



2 Wait for about 5 seconds after specifying the length of time.

The SLEEP indicator remains lit on the display.

To check the remaining time until shut-off time, press SLEEP once. The remaining time until shut-off time appears for about 5 seconds.

To change the shut-off time, press SLEEP repeatedly until the length of time you want appears.

To cancel the setting, press SLEEP repeatedly until the SLEEP indicator goes off and display returns to the normal indication.

- Turning off the unit also cancels the Sleep Timer.

notes When you set the Sleep Timer after the Daily Timer starts playing the selected source
The unit follows the Sleep Timer setting.

notes If you set the Sleep Timer while playing back or recording a tape

Do not shut the unit off with the Sleep Timer while a tape is running. If the unit turns off while playing back or recording a tape, the cassette deck or tapes may be damaged.

Maintenance

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

General Notes

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

- Store discs and tapes in their cases, and keep them in cabinets or on shelves.

Cleaning the unit

• Stains on the unit

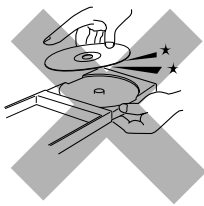
Should be wiped off with a soft cloth. If the unit is heavily stained, wipe it with a cloth soaked in water-diluted neutral detergent and wrung well, then wipe clean with a dry cloth.

- **Since the unit may deteriorate in quality, become damaged or have its paint peel off, be careful about the following:**
 - DO NOT wipe it with a rough cloth.
 - DO NOT wipe it too vigorously.
 - DO NOT wipe it with thinner or benzine.
 - DO NOT apply any volatile substance such as an insecticide 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.



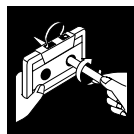
To clean the disc

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 storing tapes in any of the following places:
 - In dusty places
 - In direct sunlight or heat
 - In moist areas
 - On a TV or speaker
 - Near a magnet

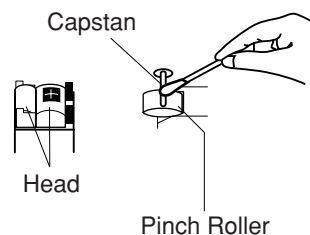
To keep the best recording and playback sound quality

You need to clean the heads.

- Clean the heads after every 10 hours of use with a wet-type head cleaning tape (available at electronic and audio shops).

When the head becomes dirty, the following symptoms will occur:

 - Sound quality is reduced.
 - Sound level decreases.
 - Sound drops out.
- Do not play dirty or dusty tapes.
- Do not touch the highly-polished head with any metallic or magnetic tools.



To demagnetize the head

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

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	Possible Cause	Action
Power does not come on.	The power cord is not connected to an AC outlet.	Insert the plug into the socket.
No sound is heard.	<ul style="list-style-type: none"> • Connections are incorrect or loose. • A pair of headphones is connected. • MP3 disc is recorded with “packet writing.” 	<ul style="list-style-type: none"> • Check all connections and make corrections. (See pages 6 and 7.) • Unplug the headphones from the PHONES jack. • It cannot be played. Replace the disc.
Hard to listen to broadcasts because of noise.	<ul style="list-style-type: none"> • Antennas are disconnected. • The AM loop antenna is too close to the unit. • The FM antenna is not properly extended and positioned. 	<ul style="list-style-type: none"> • Reconnect the antenna correctly and securely. • Change the position and direction of the AM loop antenna. • Extend FM antenna and orient to the best reception position.
The disc does not play.	The disc is upside down.	Put the disc in with the label side up.
Specific files (tracks) on an MP3 disc are not played.	Files other than MP3 are included in the disc.	They cannot be played.
Impossible to record.	Small tabs on the back of the cassette are removed.	Cover the holes with adhesive tape.
Operations are disabled.	The built-in microprocessor has malfunctioned due to external electrical interference.	Unplug the AC power cord then plug it back in.
Unable to operate the unit by the remote control.	<ul style="list-style-type: none"> • The path between the remote control and the remote sensor on the unit is blocked. • The batteries are exhausted. • You are using the remote control too far from the unit. 	<ul style="list-style-type: none"> • Remove the obstruction. • Replace the batteries. (See page 6.) • Signals cannot reach the remote sensor. Move closer to the unit.

Specifications

Design and specifications are subject to change without notice.

Amplifier Section—CA-UXH100

Output Power:
10 W per channel, min. RMS, driven into 6 Ω at 1 kHz,
with no more than 10% total harmonic distortion
(IEC 268-3)

Speakers/Impedance: 6 Ω – 16 Ω

Tuner

FM tuning range:
FM 100 kHz intervals: 87.5 MHz—108.0 MHz
FM 50 kHz intervals: 87.50 MHz—108.00 MHz

AM tuning range:
AM 10 kHz intervals: 530 kHz—1 710 kHz
AM 9 kHz intervals: 531 kHz—1 710 kHz

CD player

Dynamic range: 85 dB
Signal-to-noise ratio: 85 dB
Wow and flutter: Immeasurable

Cassette deck

Frequency response:
Normal (type I): 100 Hz—10 000 Hz
Wow and flutter: 0.35 % (WRMS)

General

Power requirement: AC 110V–127V/220V–240 V ~, adjustable with the voltage selector, 50 Hz/60 Hz
Power consumption: 38 W (at operation)
2 W (on standby)
Dimensions (W/H/D) (approx.): 144 mm x 255 mm x 277 mm
Mass (approx.): 2.9 kg

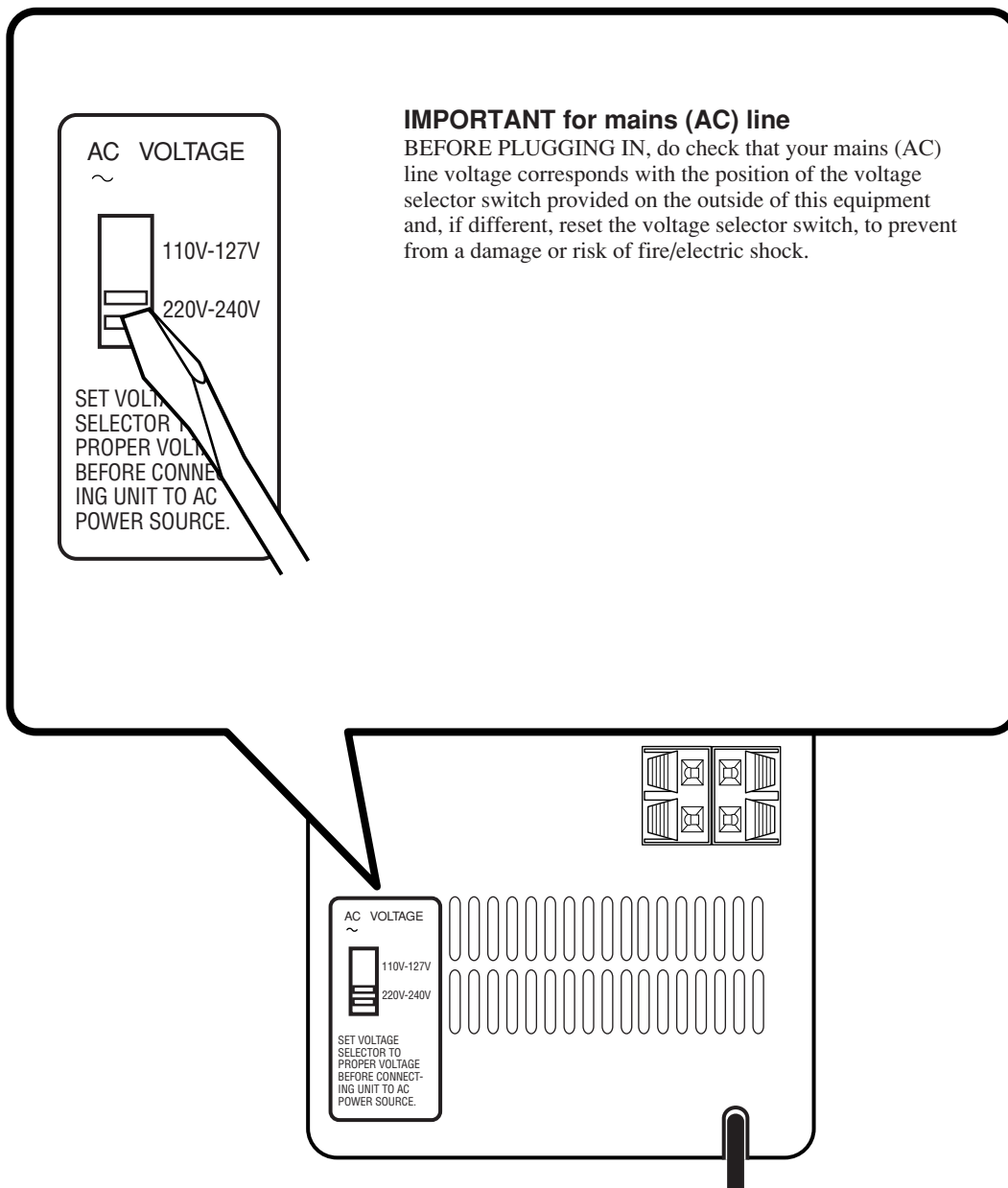
Supplied accessories

See page 6.

Speaker Section—SP-UXH100

Type: Full range Bass-reflex type
Speakers: 10 cm cone x1
Power handling capacity: 10 W
Impedance: 6 Ω
Frequency range: 100 Hz to 15 kHz
Dimensions (W/H/D) (approx.): 130 mm x 257 mm x 151 mm
Mass (approx.): 1.5 kg each

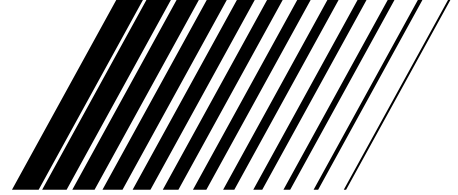
Mains (AC) Line Instruction (not applicable for Europe, U.S.A., Canada, Australia, and U.K.)



JVC

VICTOR COMPANY OF JAPAN, LIMITED

JVC



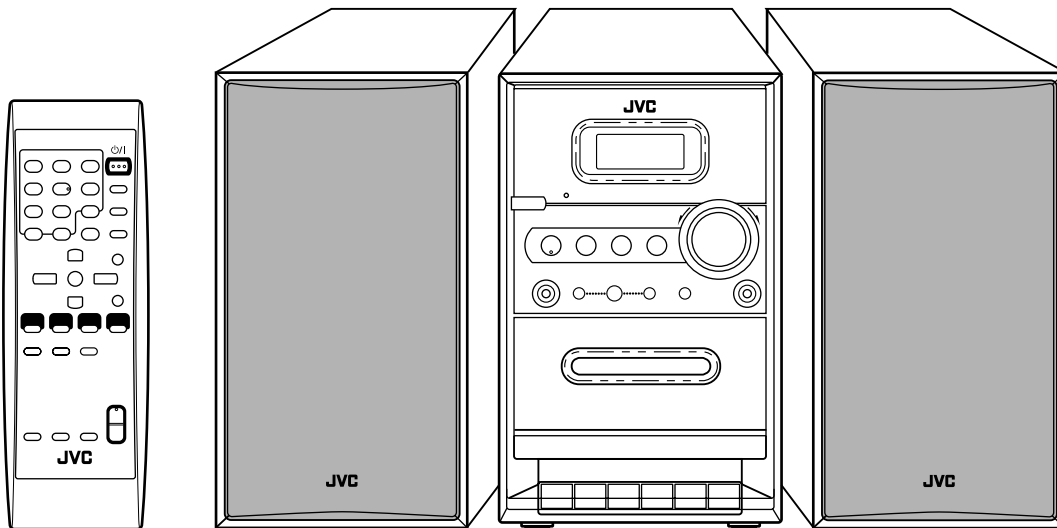
English

Español

Português

MICRO COMPONENT SYSTEM SISTEMAS DE MICROCOMPONENTES SISTEMA DE MICRO COMPONENTES

UX-H100 —Consists of CA-UXH100 and SP-UXH100



COMPACT
disc
DIGITAL AUDIO

INSTRUCTIONS MANUAL DE INSTRUCCIONES INSTRUÇÕES


LVT1190-007A
[UW]

Warnings, Cautions and Others

Avisos, precauciones y otras notas

Advertências, precauções e outras notas

CAUTION—/I STANDBY/ON button !


Disconnect the mains plug to shut the power off completely (all lamps and indications go off). The /I STANDBY/ON button in any position does not disconnect the mains line.

- When the unit is on standby, the STANDBY lamp lights red.
- When the unit is turned on, the STANDBY lamp goes off.

The power can be remote controlled.

PRECAUCIÓN—Botón /I STANDBY/ON !


Desconecte el enchufe tomacorriente para desconectar la alimentación completamente (se apagan todas las lámparas e indicaciones).

Ninguna posición del botón /I STANDBY/ON conseguirá desconectar la red de alimentación eléctrica.

- Cuando la unidad está en espera, la lámpara STANDBY se enciende en rojo.
- Cuando la unidad está encendida, la lámpara STANDBY se apaga.

La alimentación puede controlarse mediante control remoto.

CUIDADO—botão /I STANDBY/ON !

Desligue a ficha da tomada da parede para desligar completamente a alimentação (todas as luzes e indicadores apagam-se). O botão /I STANDBY/ON, quer esteja premido ou solto, não desliga a alimentação principal.

- Quando a unidade estiver em standby, a luz STANDBY fica vermelha.
- Quando a unidade estiver ligada, a luz STANDBY apaga-se.

A alimentação pode ser controlada à distância.

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.

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.

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.

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

- 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

- 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 a level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.

PRECAUCIÓN: Ventilación correcta

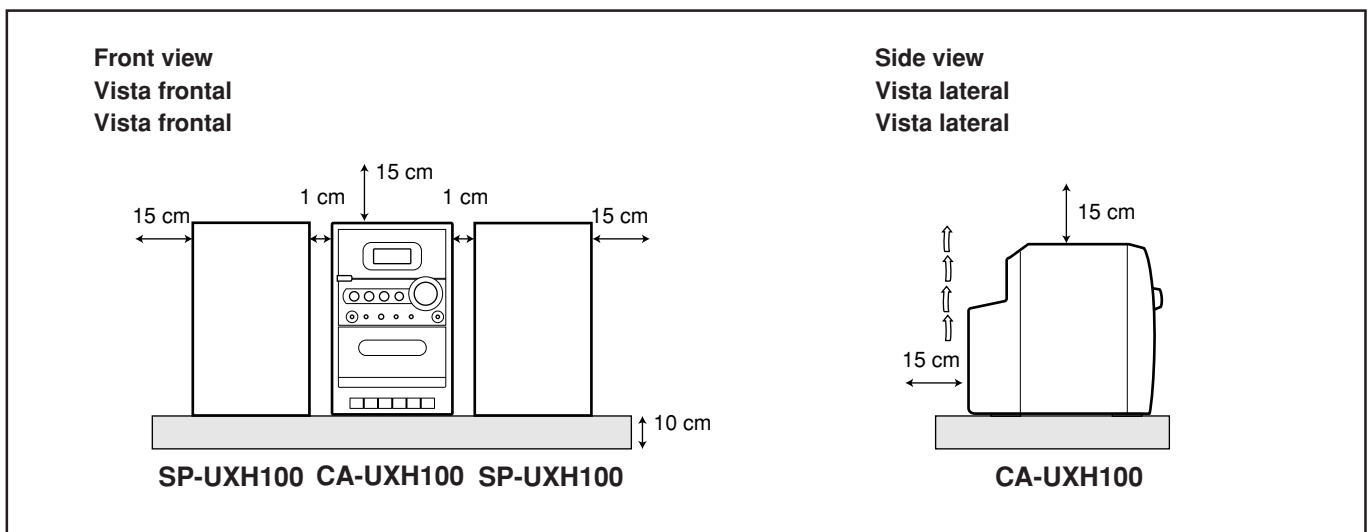
Para evitar el riesgo de descargas eléctricas e incendio y prevenir posibles daños, instale el equipo en un lugar que cumpla los siguientes requisitos:

- 1 Parte frontal:
Sin obstrucciones, espacio abierto.
- 2 Lados/parte superior/parte posterior:
No debe haber ninguna obstrucción en las áreas mostradas por las dimensiones de la siguiente figura.
- 3 Parte inferior:
Sitúe el equipo sobre una superficie nivelada. Mantenga un espacio adecuado para permitir el paso del aire y una correcta ventilación, colocando el equipo sobre un soporte de 10 cm o más de altura.

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

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

IMPORTANTE PARA PRODUCTOS LÁSER

1. PRODUCTO LÁSER CLASE 1
2. **PRECAUCIÓN:** No abra la tapa superior. En el interior de la unidad no hay piezas que pueda reparar el usuario; encargue el servicio a personal técnico cualificado.
3. **PRECAUCIÓN:** Radiación láser visible e invisible en caso de apertura o con interbloqueo averiado o defectuoso. Evite la exposición directa a los haces.
4. REPRODUCCIÓN DE LA ETIQUETA: ETIQUETA DE PRECAUCIÓN, COLOCADA EN EL INTERIOR DE LA UNIDAD.

PARA PRODUTOS LASER, IMPORTANTE

1. PRODUTO LASER DE CLASSE 1
2. **PRECAUÇÃO:** não abrir a cobertura superior. Dentro da unidade não existem partes cuja manutenção tenha de ser feita pelo usuário; deixe qualquer manutenção a cargo do pessoal de serviço qualificado.
3. **PRECAUÇÃO:** radiação laser visível e invisível quando se abre e com a conexão interna em falha ou frustrada. Evite a exposição direta ao raio.
4. REPRODUÇÃO DE ETIQUETA: ETIQUETA DE AVISO SITUADA NO INTERIOR DA UNIDADE.

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	ADVARSEL : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling. (d)	WARNING : Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	VARO : Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)
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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:

- **This manual mainly explains operations using the buttons on the remote control. You can use the buttons both on the remote control and on the unit for the same operations if they have the same or similar names (or marks), unless mentioned otherwise.**
- Basic and common information that is the same for many functions is grouped in one place, and is not repeated for 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 “Basic and Common Operations” on pages 8 and 9.
- The following symbols are used in this manual:



Gives you warning and caution to prevent damage or risk of fire/electric shock. In addition, we put information here about conditions which will prevent getting the best possible performance from the unit.



Gives you information and hints you need to know.

Precautions

Installation

- Install in a place which is level, dry and neither too hot nor too cold—between 5°C and 35°C.
- Install the unit in a location with adequate ventilation to prevent internal heat buildup.
- 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 the unit from the wall outlet, always pull on the plug, not the AC power cord.



DO NOT handle the AC power cord with wet hands.

Moisture condensation

Moisture may condense on the lenses inside the unit in the following cases:

- After starting to heat 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, then plug it in again.

Others

- Should any metallic object or liquid fall into the unit, unplug the AC power cord 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.

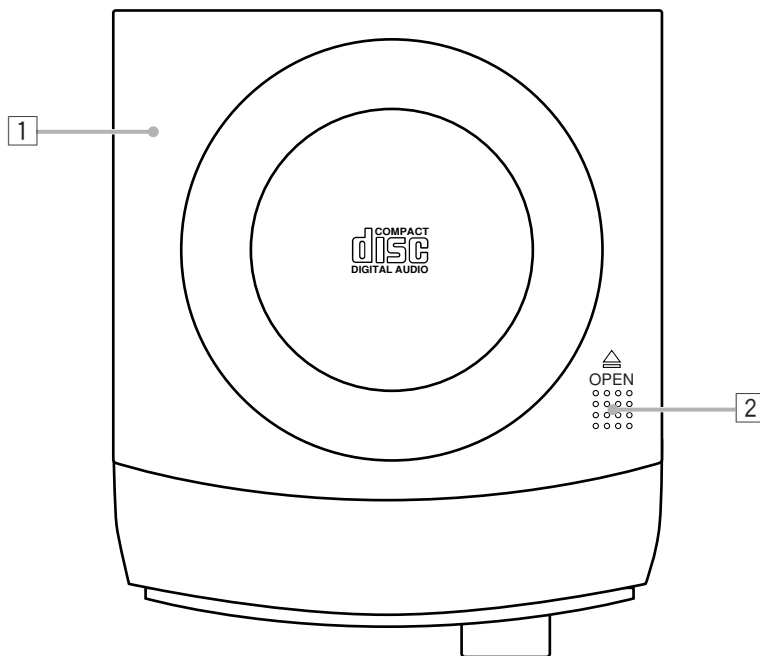
Location of the Buttons and Controls	3
Main Unit	3
Remote Control	5
Getting Started	6
Unpacking	6
Putting the Batteries into the Remote Control	6
Connections	6
Connecting Other Equipment	7
Adjusting the Voltage Selector	7
Basic and Common Operations	8
Setting the Clock	8
Turning On the Power	8
Selecting the Source	9
Adjusting the Volume	9
Fade Muting	9
Selecting the Sound Modes	9
Adjusting the Tone (Bass/Treble)	9
Listening to FM and AM Broadcasts.....	10
Setting the Tuner Interval Spacing	10
Tuning in to a Station	10
Presetting Stations	11
Tuning in to a Preset Station	11
Playing Back Discs	12
Playing Back the Entire Disc—Normal Play	12
Basic Disc Operations	13
Programming the Track Playing Order—Program Play	13
Repeating Tracks—Repeat Play	14
Playing at Random—Random Play	14
Displaying the Remaining Time during Playback	14
Playing Back Tapes.....	15
Playing Back a Tape	15
Using an External Equipment	16
Listening to the External Equipment	16
Recording	17
Recording on a Tape	17
Recording Discs—Disc Synchronized Recording	18
Using the Timers	19
Using the Daily Timer	19
Using the Sleep Timer	20
Maintenance.....	21
Troubleshooting	22
Specifications	22

Location of the Buttons and Controls

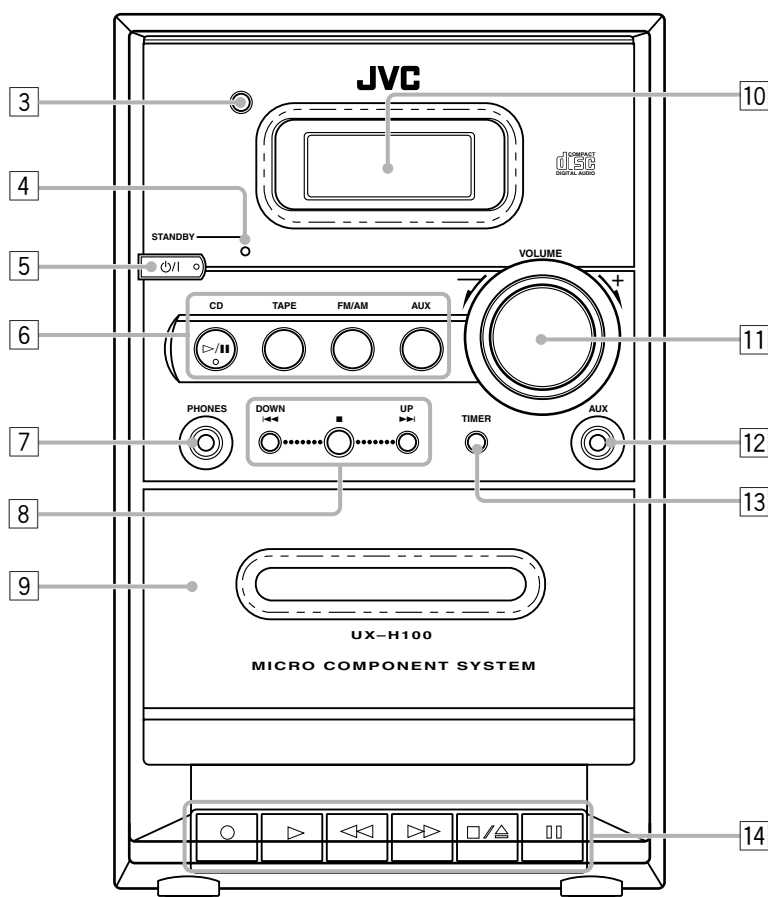
Become familiar with the buttons and controls on your unit.

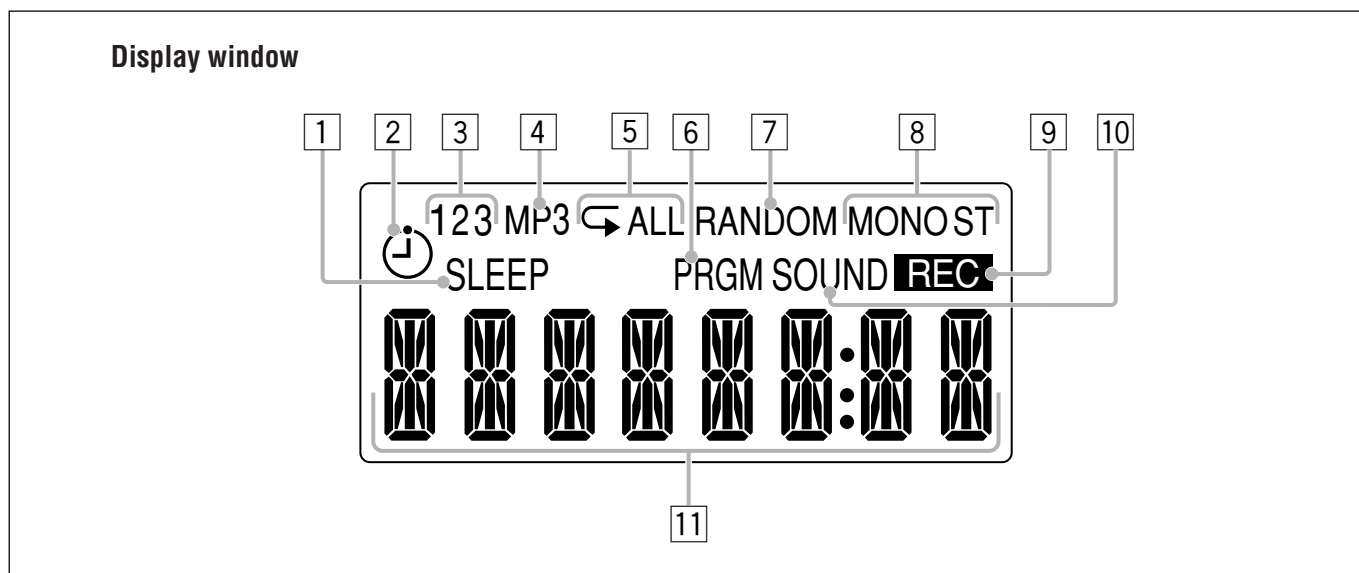
Main Unit

Top view



Front view





See pages in parentheses for details.

Main unit

- 1 Disc cover (12)
- 2 ▲ OPEN (disc cover open) (12)
- 3 Remote sensor (5)
- 4 STANDBY lamp (8)
- 5 ⏻/⏻ (STANDBY/ON) button (8, 19)
- 6 Source buttons
 - CD ▷/⏻, TAPE, FM/AM, AUX*Pressing one of these buttons also turns on the unit.*
- 7 PHONES jack (9)
- 8 MULTI CONTROL buttons
 - DOWN ◀◀, ■, UP ▶▶
- 9 Cassette holder (15)
- 10 Display window
- 11 VOLUME control (9)
- 12 AUX jack (7, 17)
- 13 TIMER button (20)
- 14 Tape operation buttons (15, 17)
 - ○ (recording), ▷ (play), ◀◀ (fast backward), ▶▶ (fast forward), ◻/⏻ (stop/cassette holder open), ◻◻ (pause)

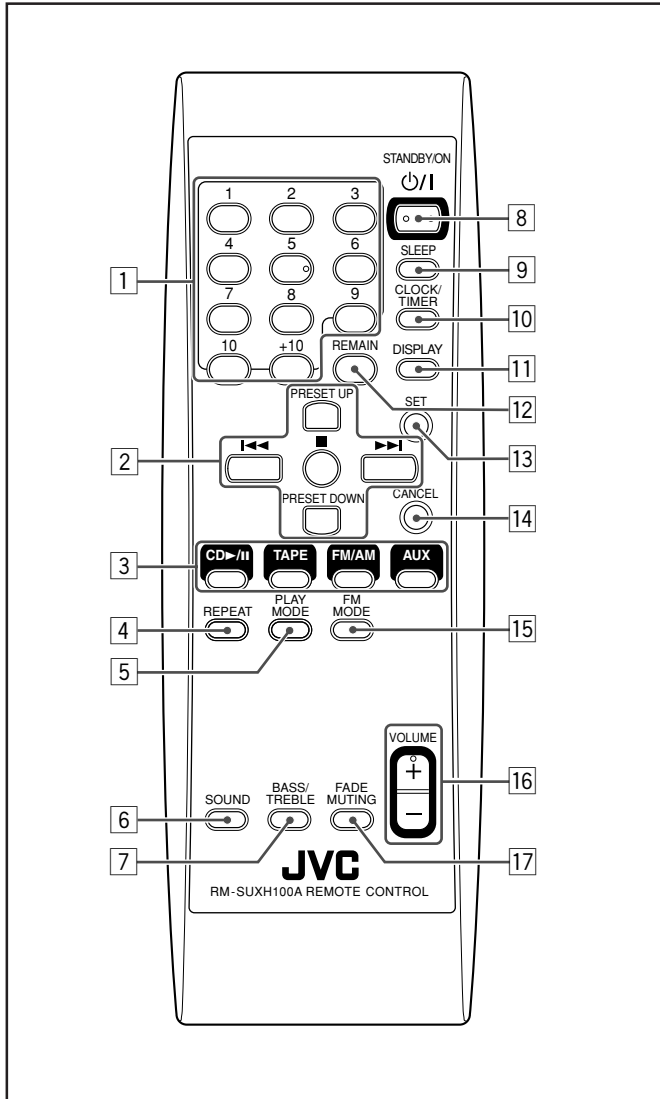
Display window

- 1 SLEEP indicator
- 2 ⏻ (timer) indicator
- 3 Timer number indicators
- 4 MP3 indicator
- 5 Repeat indicators
 - ↻, ALL
- 6 PRGM (program) indicator
- 7 RANDOM indicator
- 8 FM mode indicators
 - MONO, ST (stereo)
- 9 REC indicator
- 10 SOUND indicator
- 11 Main display

Location of the Buttons and Controls (continued)

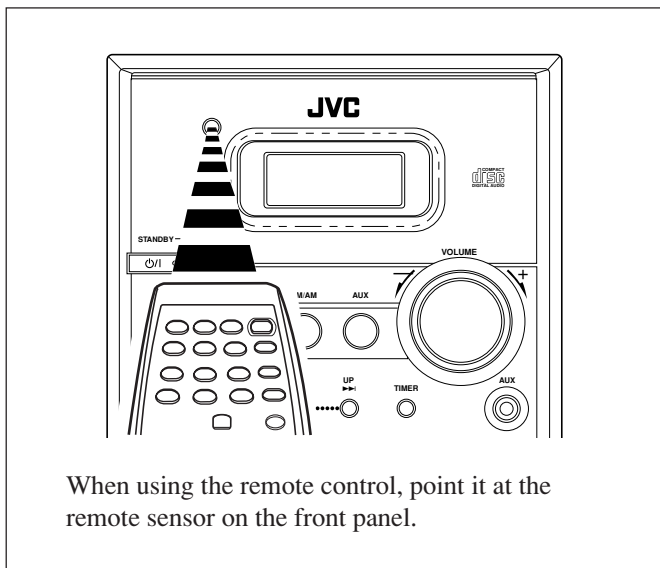
Remote Control

See pages in parentheses for details.



- 1 Number buttons (10, 11, 13)
- 2 Multi control buttons
 - PRESET UP, PRESET DOWN
 - ◀◀, ■, ▶▶
- 3 Source buttons
 - CD ▷/⏏, TAPE, FM/AM, AUX

Pressing one of these buttons also turns on the unit.
- 4 REPEAT button (14)
- 5 PLAY MODE button (11, 13, 14)
- 6 SOUND button (9)
- 7 BASS/TREBLE button (9)
- 8 STANDBY/ON ⏏/I button (8, 10, 19)
- 9 SLEEP button (20)
- 10 CLOCK/TIMER button (8, 19)
- 11 DISPLAY button (8)
- 12 REMAIN button (14)
- 13 SET button (8, 19)
- 14 CANCEL button (19)
- 15 FM MODE button (10)
- 16 VOLUME + / - buttons (9)
- 17 FADE MUTING button (9)



Unpacking

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

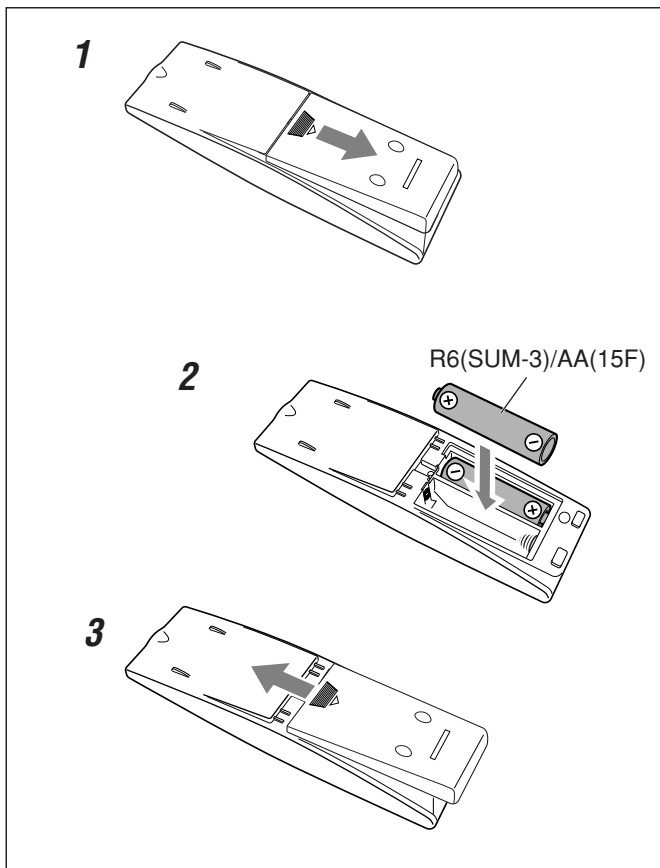
The number in parentheses indicates the quantity of each piece supplied.

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

If any item is missing, consult your dealer immediately.

Putting the Batteries into the Remote Control

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

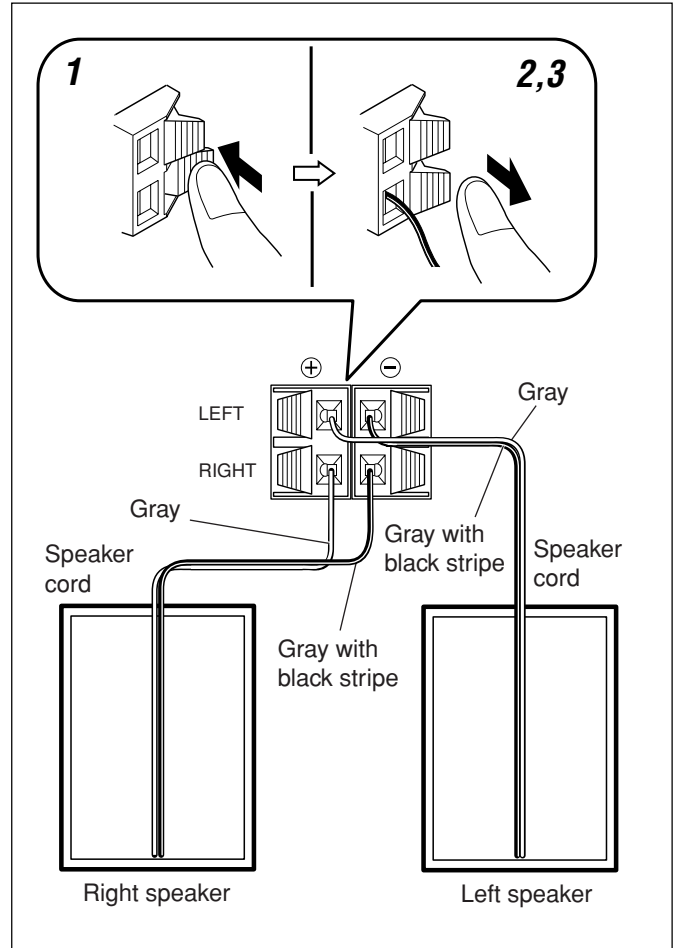


- DO NOT use an old battery together with a new one.
- DO NOT use different types of batteries together.
- DO NOT expose batteries to heat or flame.
- DO NOT leave the batteries in the battery compartment when you are not going to use the remote control for an extended period of time. Otherwise, the remote control will be damaged from battery leakage.

Connections

To connect speakers

You can connect the speakers using the speaker cords.



1 Hold the clamp of the speaker terminal.

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

Match the polarity of the speaker terminals: gray cord (⊕) to red (⊕) and gray cord with black stripe (⊖) to black (⊖).

3 Release your finger from the clamp.

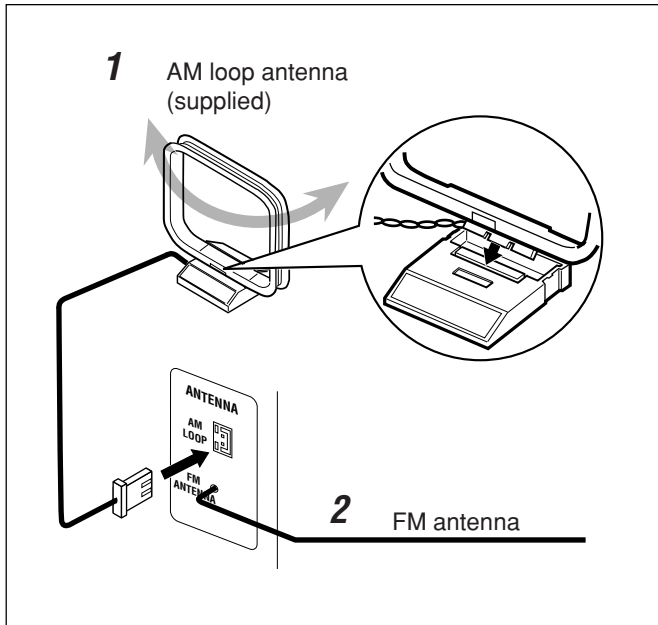
IMPORTANT:

- 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.

Getting Started (continued)

Do not connect the AC power cord until all other connections have been made.

To connect AM and FM antennas



1 Connect the supplied AM loop antenna to the AM LOOP terminal.

Place the antenna away from the unit and adjust its position for the best reception.

2 Adjust the position for the FM antenna for the best reception.



For better reception of both FM and AM

- Make sure the antenna conductors do not touch any other terminals or connecting cords.
- Keep the antennas away from metallic parts of the unit, connecting cords, and the AC power cord.

Connecting Other Equipment

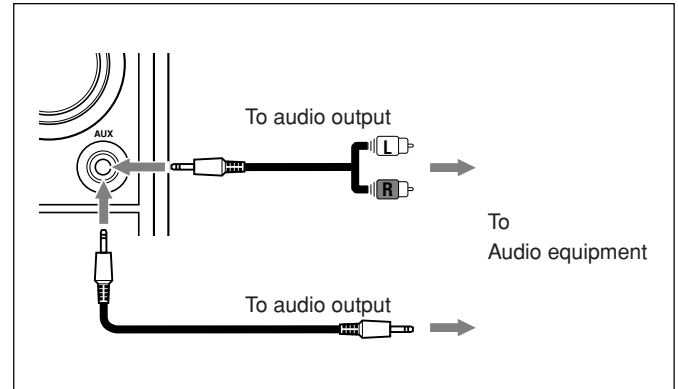
To connect audio equipment

You can connect audio equipment—used only as a playback device.



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

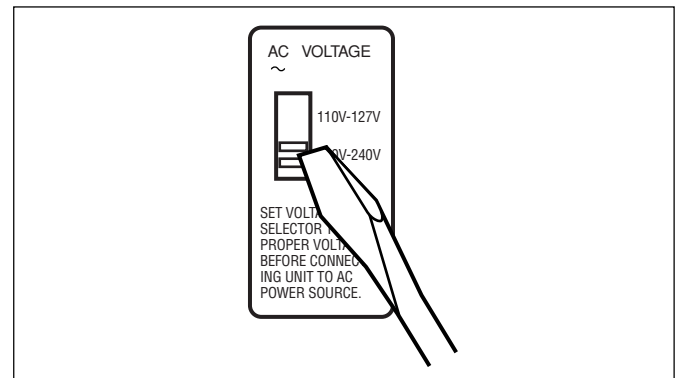
For playing other equipment through this unit, connect between the audio output jacks on the other equipment and AUX jacks by using audio cords with mini plugs (not supplied).



When the audio equipment has pin jacks for audio output: Be sure that the pin plugs of the audio cords are colored—white plugs and jacks are for left audio signals, and red ones for right audio signals.

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 screwdriver to move the voltage selector so the voltage number is the same as the voltage where you are plugging in the unit. (See the back cover page.)



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

NOW you are ready to plug in the unit.

- If the wall outlet does not match the AC plug, use the supplied AC adaptor.

IMPORTANT:

Be sure to check that all connections have been made before plugging in the power cord.

Setting the Clock

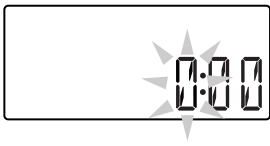
Before operating the unit any further, first set the unit's clock. When you plug in the power cord, "0:00" starts flashing on the display.

You can set the clock when the unit is either turned on or in standby mode.

On the remote control ONLY:

1 Press CLOCK/TIMER.

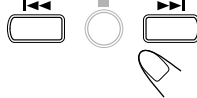
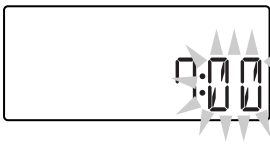
The hour indication starts flashing.



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

- When you press and hold <<< or >>>, the hour indication changes continuously.

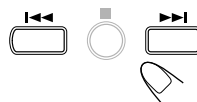
The minute indication starts flashing.



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

- When you press and hold <<< or >>>, the minute indication changes continuously.

The built-in clock starts.



To show the clock when the unit is turned on

On the remote control ONLY:

Press DISPLAY.

- Each time you press the button, the display changes the clock indication and the normal indication alternately.



To adjust the clock

On the remote control ONLY:

1 Press CLOCK/TIMER repeatedly to show the current time indication.

- When the unit is in standby mode, be sure that ":" is not flashing.



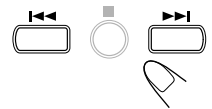
2 Press SET.

The hour indication starts flashing.



3 Press <<< or >>> to adjust the hour, then press SET.

The minute indication starts flashing.





4 Press <<< or >>> to adjust the minute, then press SET.

The built-in clock starts.




Turning On the Power

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

- When you press the source button—CD , TAPE, FM/AM and AUX, the unit automatically turns on.



To turn off the unit (standby), press STANDBY/ON  again.

The STANDBY lamp on the unit lights red.

- "0:00" flashes on the display until you set the built-in clock. After setting the clock, the clock time will appear on the display while the unit is on standby.
- A little power is always consumed even while the unit is in standby mode.

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 "0:00" right away. If this happens, set the clock again.
- The clock may gain or lose 1 to 2 minutes per month**
If this happens, reset the clock.



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

The clock is reset to "0:00" right away and "0:00" starts flashing on the display when plugging the power cord again. If this happens, set the clock again.

Basic and Common Operations (continued)

Selecting the Source

To select the source, press CD ►/■, TAPE, FM/AM, or AUX.

- When you select CD as the source, playback starts automatically.

To operate the tuner (FM or AM), see pages 10 and 11.

To operate the CD player, see pages 12 to 14.

To operate the tape deck, see page 15.

To record on a tape, see pages 17 and 18.

To use an external equipment, see page 16.

Adjusting the Volume

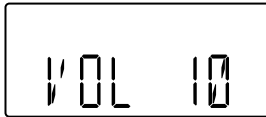
You can adjust the volume level only while the unit is turned on. The volume level can be adjusted between “VOL MIN,” “VOL 01” – “VOL 30,” and “VOL MAX.”

- The volume level has no effect on recording.

To increase the volume, press VOLUME + (or turn VOLUME control clockwise on the unit).

To decrease the volume, press VOLUME – (or turn VOLUME control counterclockwise on the unit).

- When you press and hold either button, you can change the volume level continuously.



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 the headphones.



DO NOT turn off (standby) the unit with the volume set to an extremely high level; Otherwise, the sudden blast of sound can damage your hearing, speakers and/or headphones when you turn on the unit or start playing any source. REMEMBER you cannot adjust the volume level while the unit is in standby mode.

Fade Muting

On the remote control ONLY:

Press FADE MUTING.

The volume level decreases to “VOL MIN,” and “MUTING” starts flashing on the display.



To release muting, press FADE MUTING again. The volume level resumes to the previous level.

- Adjusting the volume level also cancels the muting.

Selecting the Sound Modes

You can select one of the 4 sound modes.

- This function also affects the sound from headphones.
- This function only affects the playback sound, and does not affect your recording.

On the remote control ONLY:

To select the sound modes, press SOUND repeatedly.



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



ROCK: Powerful sound emphasizing treble and bass.

POP: More presence in the vocals and midrange.

CLASSIC: Enriched sound with fine treble and ample bass.

JAZZ: Accented lower frequencies for jazz-type music.

OFF: Equalizer effect is canceled.

When the sound mode is activated, the SOUND indicator lights up on the display.

Adjusting the Tone (Bass/Treble)

You can adjust the bass level (low frequency range) and the treble level (high frequency range) within a range of –1 to +4. When shipped, the bass level set to “BASS 0” and the treble level set to “TREBLE 0.”

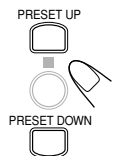
- This function only affects the playback sound, and does not affect your recording.
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start over from step 1.

On the remote control ONLY:

1 Press BASS/TREBLE once to adjust the bass level or press BASS/TREBLE twice to adjust the treble level.



2 Press PRESET UP to increase the level or press PRESET DOWN to decrease it.



- You cannot use the tone adjustment function and the sound mode function at the same time. (The sound mode changes automatically into “OFF” when pressing BASS/TREBLE.)
- The bass/treble setting automatically returns to “0” when you select one of the sound modes (see “Selecting the Sound Modes” above).

Setting the Tuner Interval Spacing

You can select 10 kHz or 9 kHz apart for the AM tuner interval spacing and 100 kHz or 50 kHz apart for the FM tuner interval spacing.

- The interval settings of AM and FM change together.

AM 10 kHz, FM 100 kHz ↔ AM 9 kHz, FM 50 kHz

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

On the remote control ONLY:

- Press **STANDBY/ON**  to turn off the unit (standby).



- Press and hold **■** for a few seconds.

The current interval setting appears on the display.



AM 10 kHz, FM 100 kHz

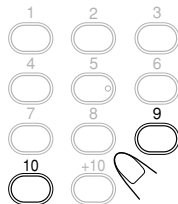


AM 9 kHz, FM 50 kHz



- Press **10** or **9** to select the interval setting for your area.

- 10**: Sets the interval to 10 kHz (AM) and 100 kHz (FM).
- 9**: Sets the interval to 9 kHz (AM) and 50 kHz (FM).



The new interval setting appears on the display for a few seconds.



When you change the setting

The preset stations are erased. You will need to preset the stations again. (See page 11.)

Tuning in to a Station

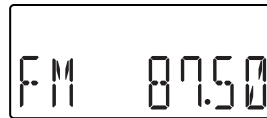
- Press **FM/AM** to select either “FM” or “AM.”



The unit automatically turns on and tunes in to the previously received station—either FM or AM.

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

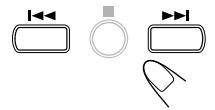
FM 50 kHz interval



FM 100 kHz interval



- Press and hold **▶▶▶** or **◀◀◀** (or **UP ▶▶▶** or **DOWN ◀◀◀** on the unit) for more than 1 second.



- ▶▶▶** (UP **▶▶▶**): Increases the frequencies.
- ◀◀◀** (DOWN **◀◀◀**): Decreases the frequencies.

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

- If an FM program is broadcast in stereo, the **ST** (stereo) indicator lights up on the display (only when the reception is good).

To stop during searching, press **▶▶▶** or **◀◀◀** (or **UP ▶▶▶** or **DOWN ◀◀◀** on the unit).



When you repeatedly press **▶▶▶** or **◀◀◀** (or **UP ▶▶▶** or **DOWN ◀◀◀** on the unit)

The frequency changes step by step.

To change the FM reception mode

On the remote control ONLY:

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

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

- Changing the station also cancels the **MONO** mode.

Listening to FM and AM Broadcasts (continued)

Presetting Stations

You can preset 30 FM and 15 AM stations manually.

In some cases, test frequencies have been already stored 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 again from step 2.

On the remote control ONLY:

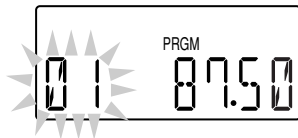
1 Tune in to the station you want to preset.

- See “Tuning in to a Station” on page 10.

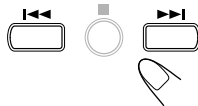
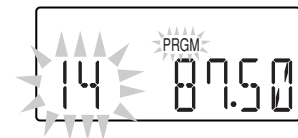
2 Press PLAY MODE.

The preset number starts flashing on the display.

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

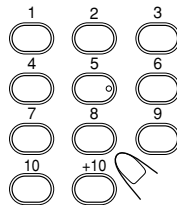


3 Press >>> or <<< to select a preset number.



You can also use the number button(s) to select a preset number.

- 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 30, press +10, +10, then 10.



4 Press PLAY MODE again.



5 To preset more stations, repeat steps 1 to 4 above, allocating a different preset number to each station.

- Storing a new station on an already assigned number erases the previously stored one.



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

The preset stations will remain in the unit.

Tuning in to a Preset Station

On the remote control ONLY:

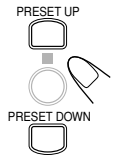
1 Press FM/AM to select either “FM” or “AM.”



The unit automatically turns on and tunes in to the previously received station—either FM or AM.

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

2 Press PRESET UP or PRESET DOWN repeatedly to select a preset number.



To tune in to a preset station directly using the number buttons

On the remote control ONLY:

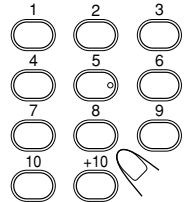
Pressing the number button(s) allows you to select the preset number you want.

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 30, press +10, +10, then 10.



This unit has been designed to play back the following discs—CD, CD-R, and CD-RW.

You can play back the discs containing the tracks in music CD format or MP3 files in ISO 9660 format.

- In this instruction, we call a disc recorded MP3 files “MP3 disc,” and “file” is also referred to as “track.”

When playing CD-Rs or CD-RWs

- Before playing CD-Rs or CD-RWs, read their instructions or cautions carefully.
- User-edited CD-Rs (CD-Recordable) and CD-RWs (CD-ReWritable) can be played only if they are already “finalized.”
- This unit supports “multi-session” discs (up to 5 sessions).
- This unit cannot play “packet write” discs.
- Some CD-Rs or CD-RWs may not play on this unit because of their disc characteristics, damage or stain on them, or if the player’s lens is dirty.
- CD-RWs may require a longer readout time. This is because the reflectance of CD-RWs is lower than for regular discs.

Notes for MP3 files

- The player can only recognize files with “MP3” or “mp3” as the extensions, which can be in any combination of upper and lower case.
- This unit recognizes up to 500 MP3 files on a disc.
- It is recommended that you record your material at a 44.1 kHz sampling rate, using the 128 kbps data transfer rate.
- Some MP3 files or discs may not be played back because of their characteristics or recording conditions.
- MP3 discs requires a longer readout time than normal discs because of the complexity of the folder/file configuration.
- ID3 Tag is not available.
- MP3i and MP3 Pro are not available.

General notes

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



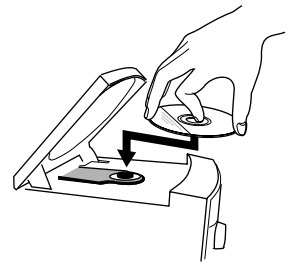
Playing Back the Entire Disc—Normal Play

1 Press OPEN on the unit.

The disc cover opens.

- You can insert a disc while listening to another source.

2 Place a disc correctly with its label side up, then press down on the portions around the disc’s center hole until you hear a click.



3 Close the disc cover gently.

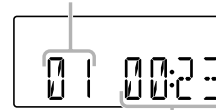
4 Press  CD/II.

The unit automatically turns on and the source changes to the CD player. After loading the disc, the first track of the disc starts playing.



When playing audio CD

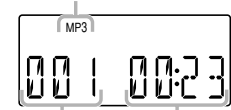
Current track number



Elapsed playing time

When playing MP3 disc

MP3 indicator



Current track number Elapsed playing time

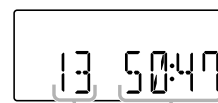
- The disc automatically stops when the last track has finished playing.

To stop playing, press .

The total track number and total playing time appear on the display.

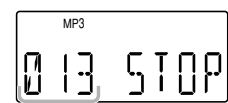


When stop playing audio CD




Total track number Total playing time

When stop playing MP3 disc



Total track number

- Total playing time does not appear when MP3 disc is loaded.

To remove the disc, press  OPEN on the unit, then take out the disc by holding it at the edges while pressing the unit’s pivot lightly.



- If the disc cannot be read correctly (because it is scratched, for example) or an unreadable CD-R or CD-RW is inserted Playback will not start.
- If no disc is inserted “NO DISC” appears on the display.



DO NOT try to open the disc cover by hand as it will be damaged.

Playing Back Discs (continued)

Basic Disc Operations

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


To stop playing for a moment

During play, press CD ►/||.

While pausing, the elapsed playing time flashes on the display. 

To resume playing, press CD ►/|| again.

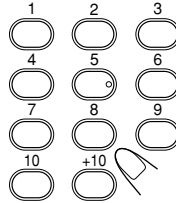
To go to another track

Before or during play, press ►►► or ◀◀◀ (or UP ►►► or DOWN ◀◀◀ on the unit) repeatedly. 

- ►►► (UP ►►►): Skips to the beginning of the next or succeeding tracks.
- ◀◀◀ (DOWN ◀◀◀): Goes back to the beginning of the current or previous tracks.

To go to another track directly using the number buttons

On the remote control ONLY:

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.

To locate a particular point in a track

During play, press and hold ►►► or ◀◀◀ (or UP ►►► or DOWN ◀◀◀ on the unit). 

- ►►► (UP ►►►): Fast-forwards the tracks.
- ◀◀◀ (DOWN ◀◀◀): Fast-reverses the tracks.

Programming the Track Playing Order —Program Play


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

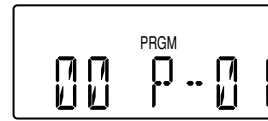
On the remote control ONLY:

1 Place a disc.

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

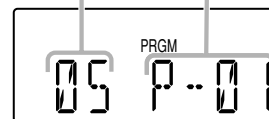
2 Press PLAY MODE.

The PRGM (program) indicator appears on the display. 



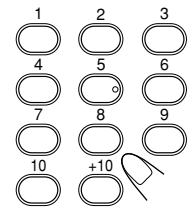
3 Press ►►► or ◀◀◀ to select the track number, then press PLAY MODE.

Track number Program step number



You can also use the number button(s) to select a track number.

- For the operation of the number buttons, see “To go to another track directly using the number buttons” on the left column.



4 Repeat step 3 to program other tracks you want.

5 Press CD ►/||.


The tracks are played in the order you have programmed. 




After programming a 32nd track

“FULL” will appear on the display for a while and the 32nd track number appears again.

To stop playing, press ■.

Playback stops and the play mode returns to Normal Play. 

To check the program contents

You can check the program contents by pressing PLAY MODE repeatedly before or after playback. 

To modify the program

Press PLAY MODE repeatedly until the program step number you want to modify appears. Then follow steps **3** and **4** of the programming procedure.



To add tracks in the program, press PLAY MODE repeatedly until "00" appears as the track number. Then follow steps **3** and **4** of the programming procedure.

To clear the program

Press PLAY MODE, then press ■ before or after playback.

The PRGM indicator disappears from the display.

- The programmed tracks are also erased in the following cases:
 - When pressing ▲ OPEN to open the disc cover.
 - When turning off the unit.
 - When changing the source.



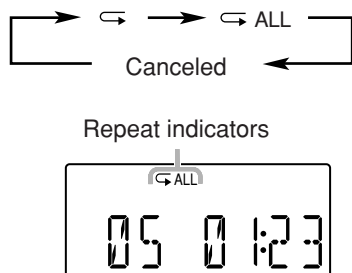
Repeating Tracks—Repeat Play

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

On the remote control ONLY:

Press REPEAT repeatedly before or during playback.

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



- ↶ : Repeats one track.
- ↶↶ ALL: In Normal Play, repeats all the tracks.
In Program Play, repeats all the tracks in the program.

To cancel Repeat Play, press REPEAT repeatedly until the repeat indicator goes off.

- Repeat Play is canceled when you select another play mode (Normal, Program, or Random Play).
- In Random Play, Repeat Play cannot be selected.



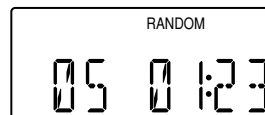
Playing at Random—Random Play

You can play the tracks at random.

On the remote control ONLY:

Press PLAY MODE during playing.

The RANDOM indicator lights up on the display.



To exit from Random Play, press PLAY MODE again.

The RANDOM indicator goes off.

- It is not possible to activate the Random Play function during Program Play.



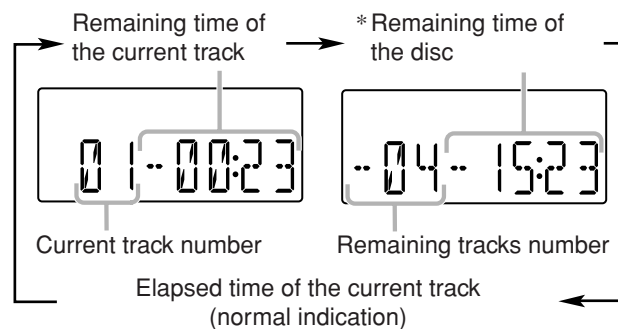
Displaying the Remaining Time during Playback

You can display the remaining time of the current track/disc and the elapsed time of the current track/disc during playing.

On the remote control ONLY:

Press REMAIN repeatedly.

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



* Remaining time of the disc will not be displayed in the following cases:

- During MP3 playback.
- During Random Play.
- During Program Play.

Playing Back Tapes

For tape operations, use buttons on the unit.

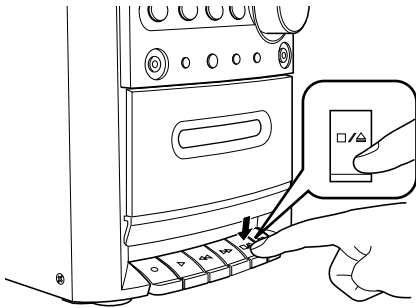
Playing Back a Tape

You can play back type I tapes only.

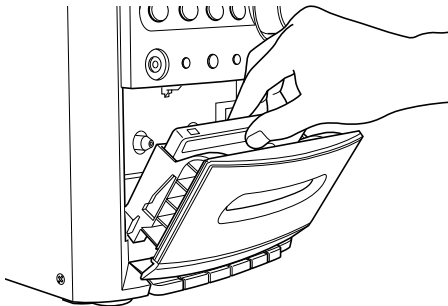
On the unit ONLY:

1 Press □/△ (stop/cassette holder open).

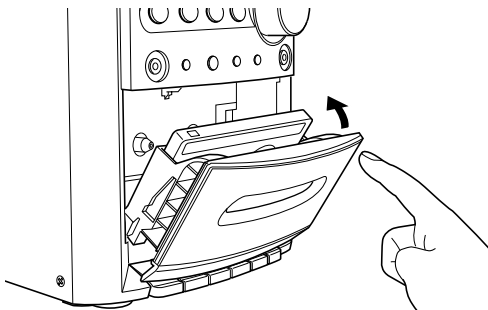
The cassette holder opens.



2 Put a cassette in with the exposed part of the tape down.



3 Close the cassette holder gently.



4 Press TAPE.

The unit automatically turns on and the source changes to the tape deck.

- You can select to the tape by pressing TAPE on the remote control.

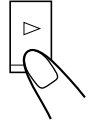
TAPE



5 Press ▷ (play).

The tape starts playing.

- When the end of the tape is reached, playing stops.

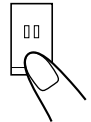


To stop playing, press □/△.



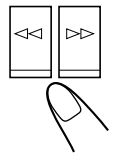
To stop playing for a moment, press |||.

To resume playing, press ||| again.

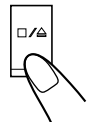


To fast forward or rewind the tape, press ▷▷ or ◁◁.

- The fast forwarding or rewinding stops at the end of the tape.



To remove the cassette, press □/△ while playback is stopped.



- DO NOT turn off the unit while playing back or recording a tape. The cassette deck or tapes may be damaged.
- The use of C-120 or longer tape is not recommended, since characteristic deterioration may occur and this tape easily jams in the pinch rollers and the capstans.
- This unit is not compatible with type II and type IV tapes.

Using an External Equipment

Listening to the External Equipment

You can listen to the external equipment such as MD recorder, cassette deck, or other auxiliary.

- First, make sure that the external equipment is properly connected to the unit. (See page 7.)

1 Set the volume level to the minimum position.

2 Press AUX.

“AUX” appears on the display.



3 Start playing the external equipment.

4 Adjust the volume level to the level you want to listen to.

To exit AUX mode, select other source.



For operation of the external equipment

Refer to its instructions.

Recording

IMPORTANT:

- It may be unlawful to record or playback copyright material without the consent of the copyright owner.
- The recording level is automatically set correctly, so it is not affected by the other sound settings. Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
- If recordings you have made have excessive noise or static, the unit may be too close to a TV. Increase the distance between the TV and the unit.
- You can only use type I tape for recording.



- DO NOT turn off the unit while playing back or recording a tape. The cassette deck or tapes may be damaged.
- DO NOT use type II and type IV tapes since the unit is not compatible with such tapes.
- The use of C-120 or longer tape is not recommended, since characteristic deterioration may occur and this tape easily jams in the pinch rollers and the capstans.



At the start and end of cassette tapes

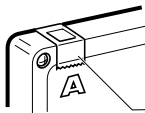
There is leader tape which cannot be recorded onto. Thus, when recording from discs, FM/AM broadcasts, or external equipment, wind the leader tape first to ensure that the recording will be made without losing any music.

To protect your recordings

Cassettes have two small tabs on the back to protect against 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.



Adhesive tape

Recording on a Tape

On the unit ONLY:

1 Put a recordable cassette in with the exposed part of the tape down.

- See also page 15.

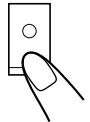
2 Close the cassette holder gently.

3 Start playing the source—FM, AM, or auxiliary equipment connected to AUX jack.

- When the source is FM or AM, tune in to the station you want to record.
- When recording from discs, see “Recording Discs—Disc Synchronized Recording” on page 18.

4 Press \circ (recording).

- \circ and \triangleright lock down, and the recording starts.
- REC indicator is shown on the display during recording.

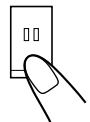


You cannot press \circ (recording) in the following cases:

- If no cassette is inserted.
- If a protected tape is inserted.

To stop recording for a moment, press $\square\square$.

To resume recording, press $\square\square$ again.



To stop recording, press \square/\triangle .



To remove the cassette, press \square/\triangle while recording is stopped.



Recording Discs

—Disc Synchronized Recording

You can start disc play and recording at the same time.

On the unit ONLY:

1 Put a recordable cassette in with the exposed part of the tape down.

- See also page 15.

2 Close the cassette holder gently.

3 Press CD ►/|| to select the CD player as the source.

CD



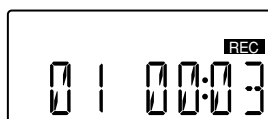
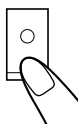
4 Press ■ to stop the disc playback.

- If you want to start recording from a particular track, select the beginning track using UP ►► or DOWN ◀◀, then go to the next step.
- If you want to make a program, perform steps 2 to 4 on page 13. After making a program, go to the next step.



5 Press ○ (recording).

The REC indicator appears on the display and the CD starts playback automatically and the recording starts.



- When the end of the tape is reached, recording stops and the CD player is paused.
- If you press ○ (recording) while playing back the CD, the CD player returns to the beginning of that track and the track is recorded on the tape.



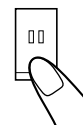
You cannot press ○ (recording) in the following cases:

- If no cassette is inserted.
- If a protected cassette is inserted.

To stop recording for a moment, press ||.

The recording is paused, but the CD playback does not stop.

To resume recording, press || again.



To stop recording, press □/△.

The recording stops and the CD playback is paused.



To remove the cassette, press □/△ while recording is stopped.



Using the Timers

Daily Timer and Sleep Timer are available.

- Before using these timers, make sure the built-in clock is set correctly (see page 8).

Using the Daily Timer

You can store three Daily timer settings and use one of settings at once.

How the Daily Timer actually works

When the on-time comes, the unit automatically turns on and automatically turns off (standby) after 60 minutes.

- Once the timer has been set, it will be activated at the same time everyday until the timer is turned off and the timer setting remains in memory until you change it.

Before you start...

When using "TUNER" as the source to play, make sure to select the desired station before turning off the power.

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

On the remote control ONLY:

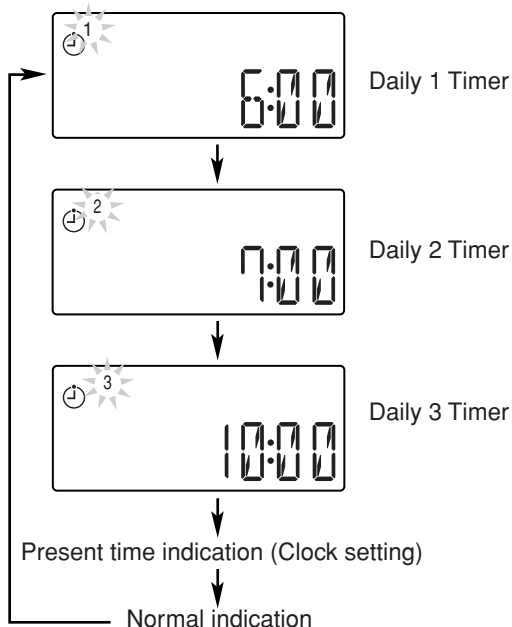
- 1 Press **STANDBY/ON**  to turn on the unit.



- 2 Press **CLOCK/TIMER** repeatedly to select the Daily Timer you want to adjust and activate—Daily 1, Daily 2, Daily 3.



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



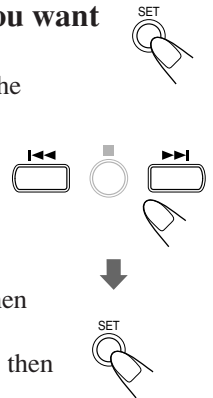
If you does not need to change the on-time setting, go to step 3.

- 3 Press **SET** to set the on-time you want the unit to turn on.

The hour indication starts flashing on the display.



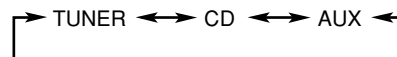
- (1) Press **▶▶** or **◀◀** to set the hour, then press **SET**.
 - (2) Press **▶▶** or **◀◀** to set the minute, then press **SET**.
- If you want to change the time setting, press **CANCEL**.



- 4 Press **▶▶** or **◀◀** to select the source to play.



Each time you press the button, the source changes as follows:



When selecting **AUX**, prepare the external equipment so that it will turn on at the on-time set on the unit.

To allow this, the equipment should have the timer function.

If you want to change the time setting, press **CANCEL** repeatedly to return Step 3.

- 5 Press **SET**.

The Daily Timer number remains lit. The display returns to the normal indication.

- When you want to activate other timer than the adjusted one, press **TIMER** on the unit repeatedly. See also "To change the Daily Timer to use" on page 20 for details.

- 6 Press **VOLUME +/-** to adjust the volume.



- 7 Press **STANDBY/ON**  to turn off the unit.



To deactivate the timer temporarily,
press TIMER on the unit repeatedly until the  (timer)
indicator goes off.

To change the Daily Timer to use,
press TIMER on the unit repeatedly until the timer number
indicator you want begins to flash.

The timer is activated after a few seconds and the selected
timer number remains lit.

- To change the timer setting, repeat steps **1** to **7** on page 19.



**If the unit is already turned on when the timer on-time
comes**

The timer does not work.



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

The timer setting remains. Set the built-in clock and activate the
timer again.

Using the Sleep Timer

With the Sleep Timer, you can fall asleep to your favorite
music or radio program.

- You can set the Sleep Timer only when the unit is turned
on.

How the Sleep Timer actually works

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

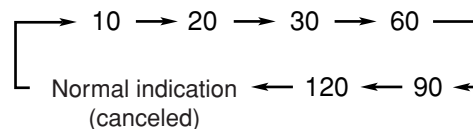
On the remote control ONLY:

1 Press SLEEP.

The SLEEP indicator flashes on the display.



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



2 Wait for about 5 seconds after specifying the length of time.

The SLEEP indicator remains lit on the display.

To check the remaining time until shut-off time, press
SLEEP once. The remaining time until shut-off time appears
for about 5 seconds.

To change the shut-off time, press SLEEP repeatedly until
the length of time you want appears.

To cancel the setting, press SLEEP repeatedly until the
SLEEP indicator goes off and display returns to the normal
indication.

- Turning off the unit also cancels the Sleep Timer.



**When you set the Sleep Timer after the Daily Timer
starts playing the selected source**

The unit follows the Sleep Timer setting.



**If you set the Sleep Timer while playing back or
recording a tape**

Do not shut the unit off with the Sleep Timer while a tape is running.
If the unit turns off while playing back or recording a tape, the
cassette deck or tapes may be damaged.

Maintenance

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

General Notes

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

- Store discs and tapes in their cases, and keep them in cabinets or on shelves.

Cleaning the unit

• Stains on the unit

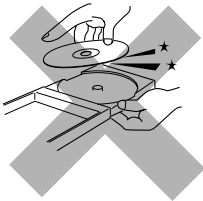
Should be wiped off with a soft cloth. If the unit is heavily stained, wipe it with a cloth soaked in water-diluted neutral detergent and wrung well, then wipe clean with a dry cloth.

- **Since the unit may deteriorate in quality, become damaged or have its paint peel off, be careful about the following:**
 - DO NOT wipe it with a rough cloth.
 - DO NOT wipe it too vigorously.
 - DO NOT wipe it with thinner or benzine.
 - DO NOT apply any volatile substance such as an insecticide to it.
 - DO NOT allow any rubber or plastic to remain in contact with it for a long time.

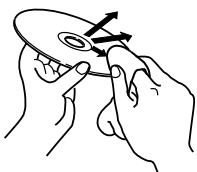
Handling discs



- 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.



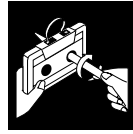
To clean the disc

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.

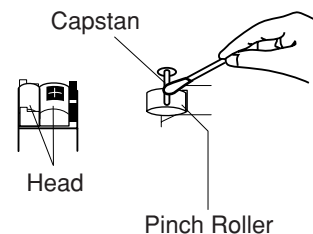


- Avoid storing tapes in any of the following places:
 - In dusty places
 - In direct sunlight or heat
 - In moist areas
 - On a TV or speaker
 - Near a magnet

To keep the best recording and playback sound quality

You need to clean the heads.

- Clean the heads after every 10 hours of use with a wet-type head cleaning tape (available at electronic and audio shops).
When the head becomes dirty, the following symptoms will occur:
 - Sound quality is reduced.
 - Sound level decreases.
 - Sound drops out.
- Do not play dirty or dusty tapes.
- Do not touch the highly-polished head with any metallic or magnetic tools.



To demagnetize the head

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

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	Possible Cause	Action
Power does not come on.	The power cord is not connected to an AC outlet.	Insert the plug into the socket.
No sound is heard.	<ul style="list-style-type: none"> • Connections are incorrect or loose. • A pair of headphones is connected. • MP3 disc is recorded with "packet writing." 	<ul style="list-style-type: none"> • Check all connections and make corrections. (See pages 6 and 7.) • Unplug the headphones from the PHONES jack. • It cannot be played. Replace the disc.
Hard to listen to broadcasts because of noise.	<ul style="list-style-type: none"> • Antennas are disconnected. • The AM loop antenna is too close to the unit. • The FM antenna is not properly extended and positioned. 	<ul style="list-style-type: none"> • Reconnect the antenna correctly and securely. • Change the position and direction of the AM loop antenna. • Extend FM antenna and orient to the best reception position.
The disc does not play.	The disc is upside down.	Put the disc in with the label side up.
Specific files (tracks) on an MP3 disc are not played.	Files other than MP3 are included in the disc.	They cannot be played.
Impossible to record.	Small tabs on the back of the cassette are removed.	Cover the holes with adhesive tape.
Operations are disabled.	The built-in microprocessor has malfunctioned due to external electrical interference.	Unplug the AC power cord then plug it back in.
Unable to operate the unit by the remote control.	<ul style="list-style-type: none"> • The path between the remote control and the remote sensor on the unit is blocked. • The batteries are exhausted. • You are using the remote control too far from the unit. 	<ul style="list-style-type: none"> • Remove the obstruction. • Replace the batteries. (See page 6.) • Signals cannot reach the remote sensor. Move closer to the unit.

Specifications

Design and specifications are subject to change without notice.

Amplifier Section—CA-UXH100

Output Power:

10 W per channel, min. RMS, driven into 6 Ω at 1 kHz, with no more than 10% total harmonic distortion (IEC 268-3)

Speakers/Impedance: 6 Ω – 16 Ω

Tuner

FM tuning range:

FM 100 kHz intervals: 87.5 MHz—108.0 MHz

FM 50 kHz intervals: 87.50 MHz—108.00 MHz

AM tuning range:

AM 10 kHz intervals: 530 kHz—1 710 kHz

AM 9 kHz intervals: 531 kHz—1 710 kHz

CD player

Dynamic range: 85 dB

Signal-to-noise ratio: 85 dB

Wow and flutter: Immeasurable

Cassette deck

Frequency response:

Normal (type I): 100 Hz—10 000 Hz

Wow and flutter: 0.35 % (WRMS)

General

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

Power consumption: 38 W (at operation)
2 W (on standby)

Dimensions (W/H/D) (approx.):

144 mm x 255 mm x 277 mm

Mass (approx.):

2.9 kg

Supplied accessories

See page 6.

Speaker Section—SP-UXH100

Type: Full range Bass-reflex type

Speakers: 10 cm cone x1

Power handling capacity: 10 W

Impedance: 6 Ω

Frequency range: 100 Hz to 15 kHz

Dimensions (W/H/D) (approx.):

130 mm x 257 mm x 151 mm

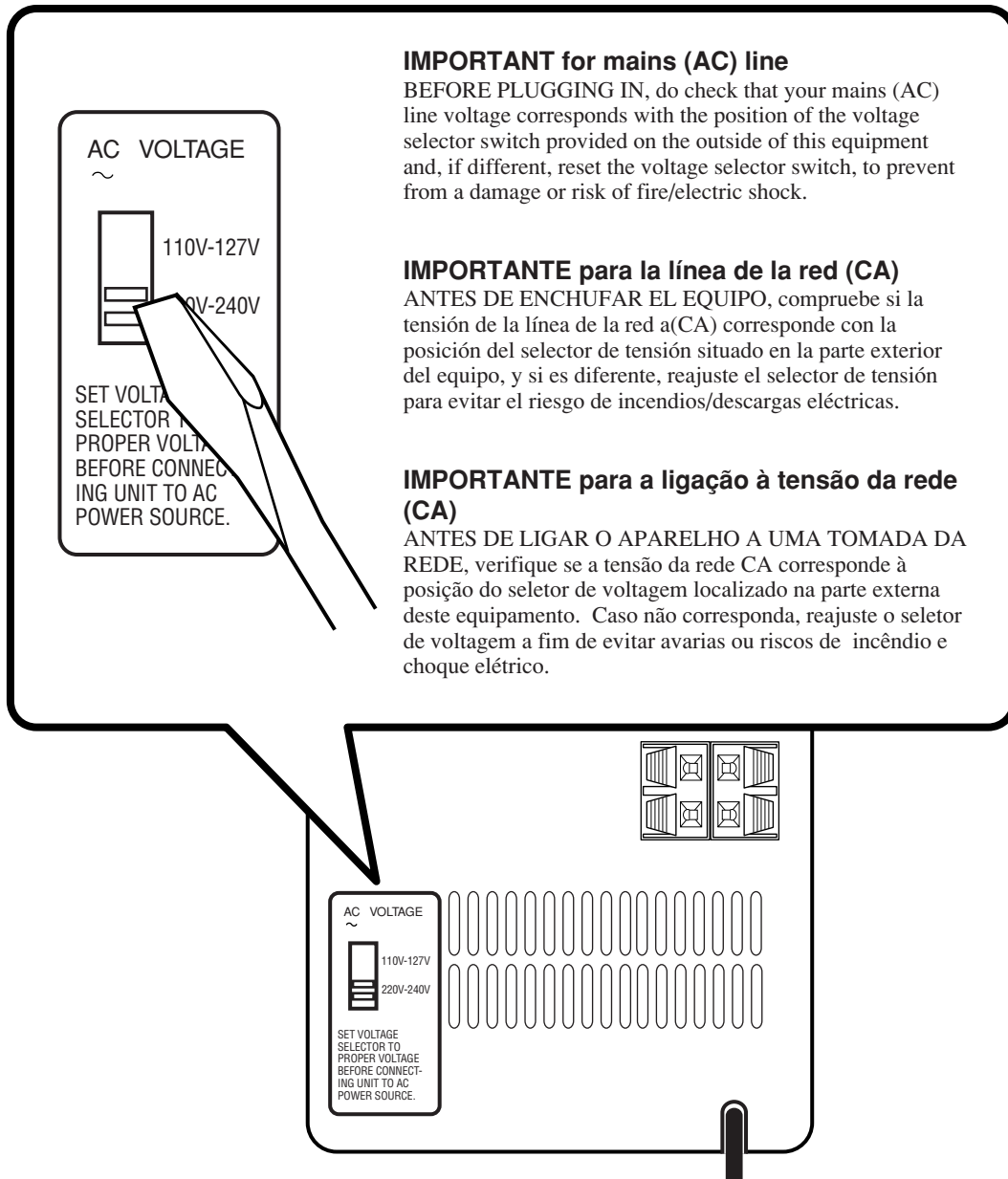
Mass (approx.):

1.5 kg each

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)



JVC
VICTOR COMPANY OF JAPAN, LIMITED

JVC

English

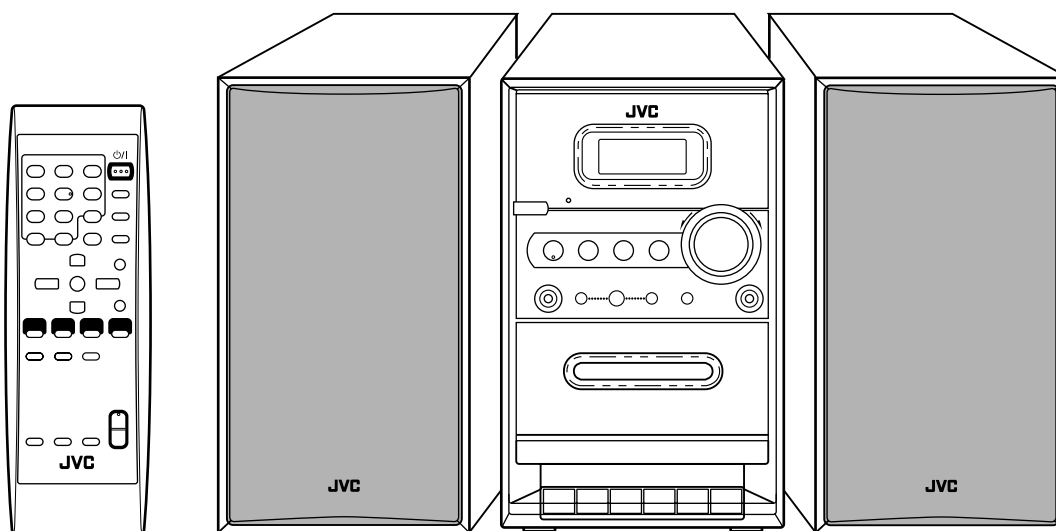
中文

MICRO COMPONENT SYSTEM

微型组合音响

UX-H100

—Consists of CA-UXH100 and SP-UXH100
—由 CA-UXH100 及 SP-UXH100 组成



COMPACT
disc
DIGITAL AUDIO

INSTRUCTIONS


使用说明书

LVT1190-008A
[US]

Warnings, Cautions and Others

警告，注意及其他须知事项

CAUTION—/I STANDBY/ON button !

Disconnect the mains plug to shut the power off completely (all lamps and indications go off). The /I STANDBY/ON button in any position does not disconnect the mains line.

- When the unit is on standby, the STANDBY lamp lights red.
- When the unit is turned on, the STANDBY lamp goes off.

The power can be remote controlled.

注意—/I STANDBY/ON 开关！

将主电源插头从插座上拔出以完全关闭电源（全部灯光和指示灯熄灭）。/I STANDBY/ON 开关处于任何状况也没有完全有完全切断主线。

- 当本机处于备用模式时，STANDBY 灯将亮起红色。
- 当本机被启动时，STANDBY 灯将熄灭。

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.

注意

为了防止触电，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于潮湿环境中。

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.

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，必须考虑环境问题，并严格遵守当地关于处理废弃电池的有关法律或规定。
- 切勿将本装置暴露于雨水所及、潮湿、滴水或易于溅起水花的地方，亦不要将任何装满液体的物件（如花瓶）放置在本装置上。

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

镭射产品的重要说明

1. 一级镭射产品。
2. **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。
3. **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可见或不可见的镭射辐射。应避免受到镭射光束的直接照射。
4. 标签的复制标示：注意标签位于机内。

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM.	ADVARSEL : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling.	VARNING : Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad. Betrakta ej strålen.	VARO : Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi.
(e)	(e)	(d)	(f)

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 a level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.

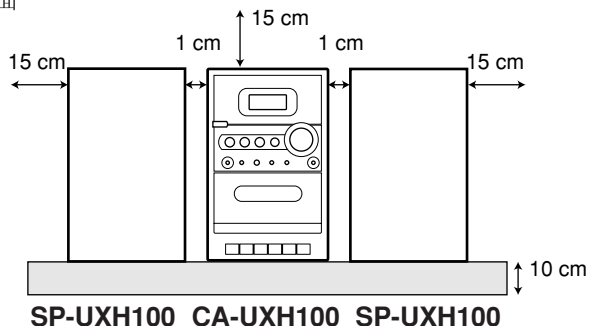
注意：正确通风

为避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 厘米或以上的台面上，以保持足够的通风道。

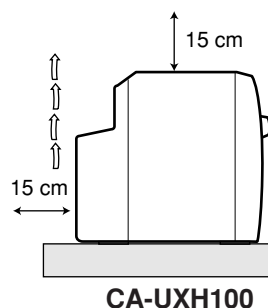
Front view

前面



Side view

侧面



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:

- **This manual mainly explains operations using the buttons on the remote control. You can use the buttons both on the remote control and on the unit for the same operations if they have the same or similar names (or marks), unless mentioned otherwise.**
- Basic and common information that is the same for many functions is grouped in one place, and is not repeated for 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 “Basic and Common Operations” on pages 8 and 9.
- The following symbols are used in this manual:



Gives you warning and caution to prevent damage or risk of fire/electric shock. In addition, we put information here about conditions which will prevent getting the best possible performance from the unit.



Gives you information and hints you need to know.

Precautions

Installation

- Install in a place which is level, dry and neither too hot nor too cold—between 5°C and 35°C.
- Install the unit in a location with adequate ventilation to prevent internal heat buildup.
- 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 the unit from the wall outlet, always pull on the plug, not the AC power cord.



DO NOT handle the AC power cord with wet hands.

Moisture condensation

Moisture may condense on the lenses inside the unit in the following cases:

- After starting to heat 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, then plug it in again.

Others

- Should any metallic object or liquid fall into the unit, unplug the AC power cord 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.

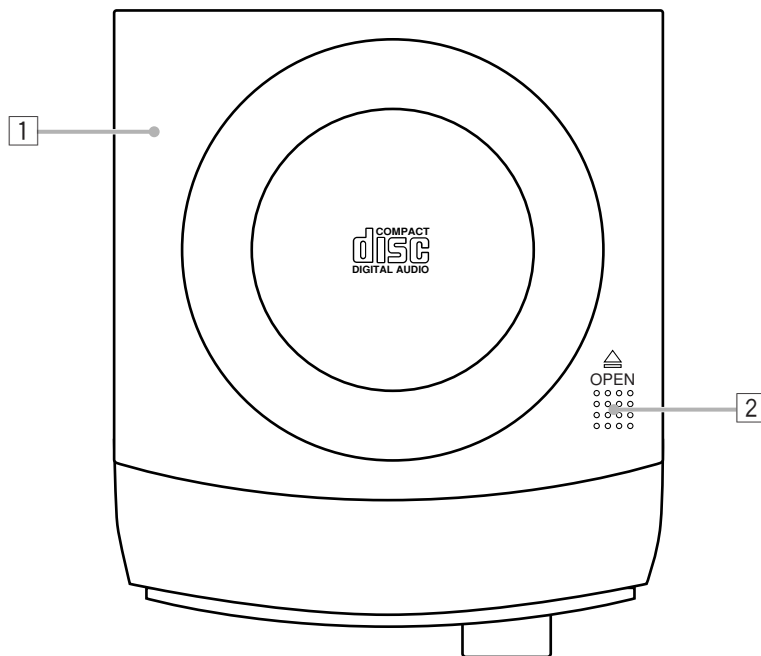
Location of the Buttons and Controls	3
Main Unit	3
Remote Control	5
Getting Started	6
Unpacking	6
Putting the Batteries into the Remote Control	6
Connections	6
Connecting Other Equipment	7
Adjusting the Voltage Selector	7
Basic and Common Operations	8
Setting the Clock	8
Turning On the Power	8
Selecting the Source	9
Adjusting the Volume	9
Fade Muting	9
Selecting the Sound Modes	9
Adjusting the Tone (Bass/Treble)	9
Listening to FM and AM Broadcasts.....	10
Setting the Tuner Interval Spacing	10
Tuning in to a Station	10
Presetting Stations	11
Tuning in to a Preset Station	11
Playing Back Discs	12
Playing Back the Entire Disc—Normal Play	12
Basic Disc Operations	13
Programming the Track Playing Order—Program Play	13
Repeating Tracks—Repeat Play	14
Playing at Random—Random Play	14
Displaying the Remaining Time during Playback	14
Playing Back Tapes.....	15
Playing Back a Tape	15
Using an External Equipment	16
Listening to the External Equipment	16
Recording	17
Recording on a Tape	17
Recording Discs—Disc Synchronized Recording	18
Using the Timers	19
Using the Daily Timer	19
Using the Sleep Timer	20
Maintenance.....	21
Troubleshooting	22
Specifications	22

Location of the Buttons and Controls

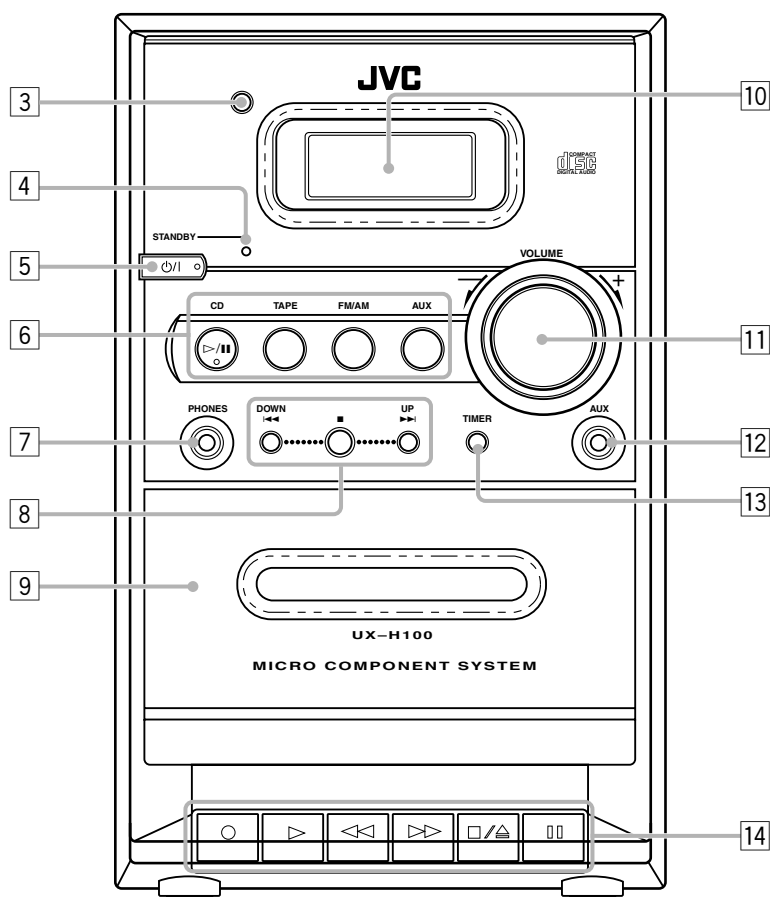
Become familiar with the buttons and controls on your unit.

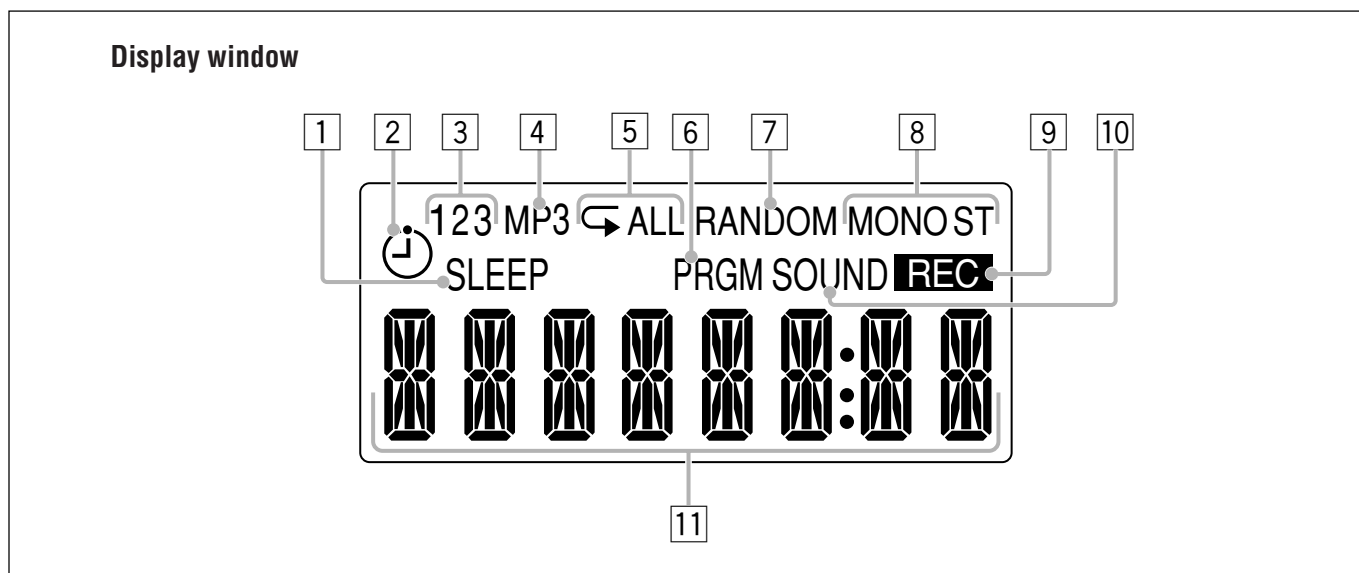
Main Unit

Top view















Front view







See pages in parentheses for details.

Main unit

- 1 Disc cover (12)
- 2  OPEN (disc cover open) (12)
- 3 Remote sensor (5)
- 4 STANDBY lamp (8)
- 5  (STANDBY/ON) button (8, 19)
- 6 Source buttons
 - CD , TAPE, FM/AM, AUX
 - Pressing one of these buttons also turns on the unit.*
- 7 PHONES jack (9)
- 8 MULTI CONTROL buttons
 - DOWN , , UP 
- 9 Cassette holder (15)
- 10 Display window
- 11 VOLUME control (9)
- 12 AUX jack (7, 17)
- 13 TIMER button (20)
- 14 Tape operation buttons (15, 17)
 -  (recording),  (play),  (fast backward),
 -  (fast forward),  (stop/cassette holder open),
 -  (pause)

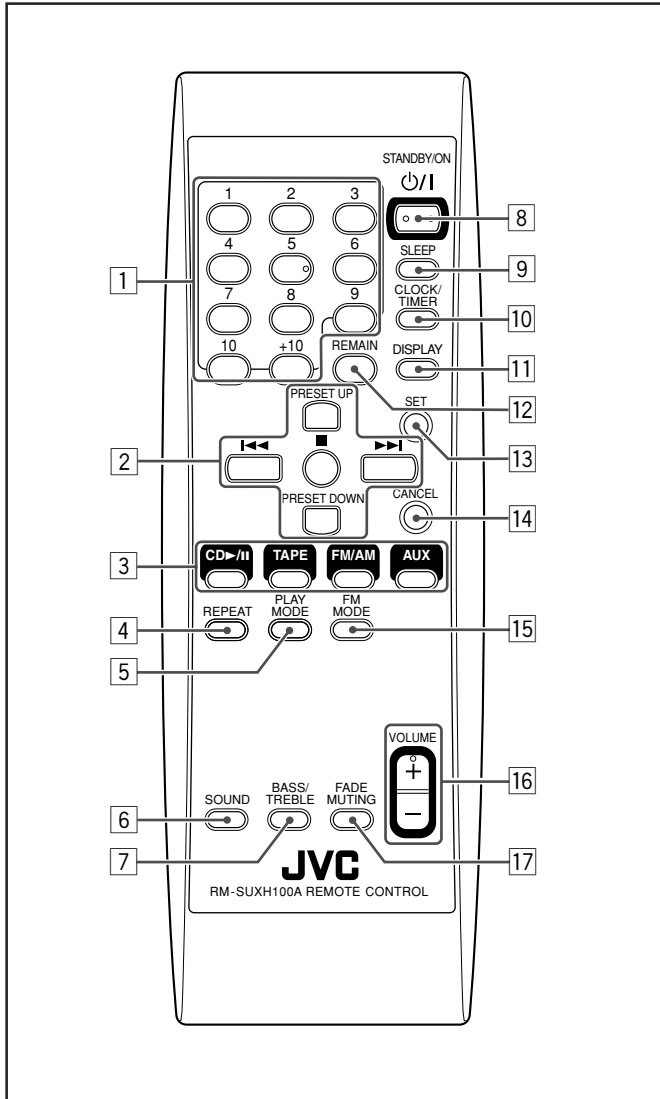
Display window

- 1 SLEEP indicator
- 2  (timer) indicator
- 3 Timer number indicators
- 4 MP3 indicator
- 5 Repeat indicators
 - , ALL
- 6 PRGM (program) indicator
- 7 RANDOM indicator
- 8 FM mode indicators
 - MONO, ST (stereo)
- 9 REC indicator
- 10 SOUND indicator
- 11 Main display

Location of the Buttons and Controls (continued)

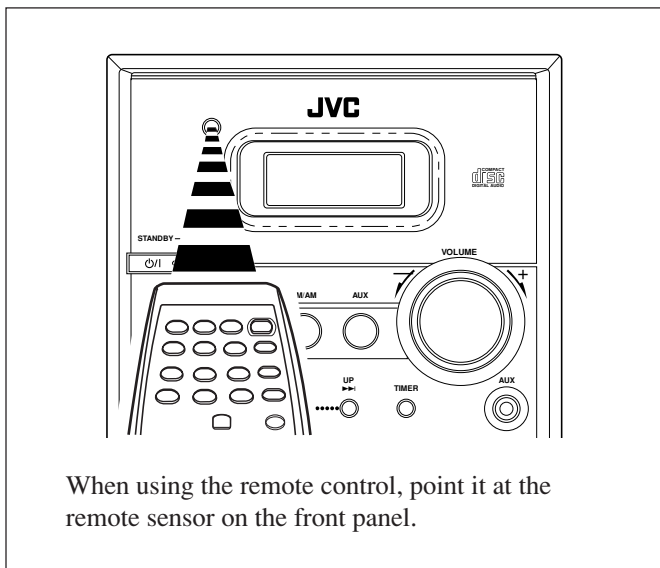
Remote Control

See pages in parentheses for details.



- 1 Number buttons (10, 11, 13)
- 2 Multi control buttons
 - PRESET UP, PRESET DOWN
 - ◀◀, ■, ▶▶
- 3 Source buttons
 - CD ▷/⏏, TAPE, FM/AM, AUX

Pressing one of these buttons also turns on the unit.
- 4 REPEAT button (14)
- 5 PLAY MODE button (11, 13, 14)
- 6 SOUND button (9)
- 7 BASS/TREBLE button (9)
- 8 STANDBY/ON ⏏/I button (8, 10, 19)
- 9 SLEEP button (20)
- 10 CLOCK/TIMER button (8, 19)
- 11 DISPLAY button (8)
- 12 REMAIN button (14)
- 13 SET button (8, 19)
- 14 CANCEL button (19)
- 15 FM MODE button (10)
- 16 VOLUME + / - buttons (9)
- 17 FADE MUTING button (9)



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

Unpacking

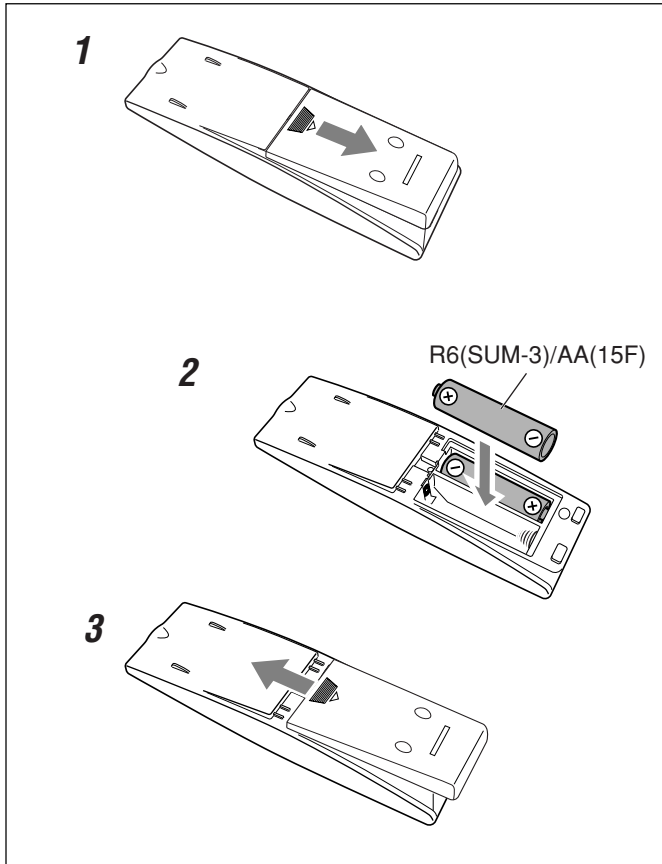
After unpacking, check to be sure that you have all the following items.
The number in parentheses indicates the quantity of each piece supplied.


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

If any item is missing, consult your dealer immediately.

Putting the Batteries into the Remote Control

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

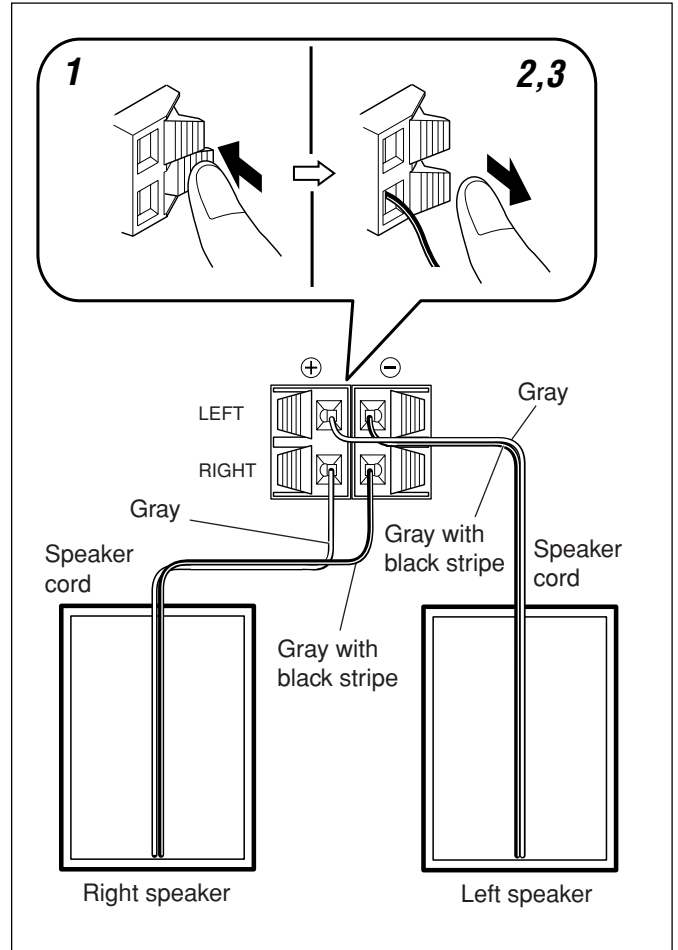


 • DO NOT use an old battery together with a new one.
• DO NOT use different types of batteries together.
• DO NOT expose batteries to heat or flame.
• DO NOT leave the batteries in the battery compartment when you are not going to use the remote control for an extended period of time. Otherwise, the remote control will be damaged from battery leakage.

Connections

To connect speakers

You can connect the speakers using the speaker cords.



- 1 Hold the clamp of the speaker terminal.**
- 2 Insert the end of the speaker cord into the terminal.**
Match the polarity of the speaker terminals: gray cord (⊕) to red (⊕) and gray cord with black stripe (⊖) to black (⊖).
- 3 Release your finger from the clamp.**

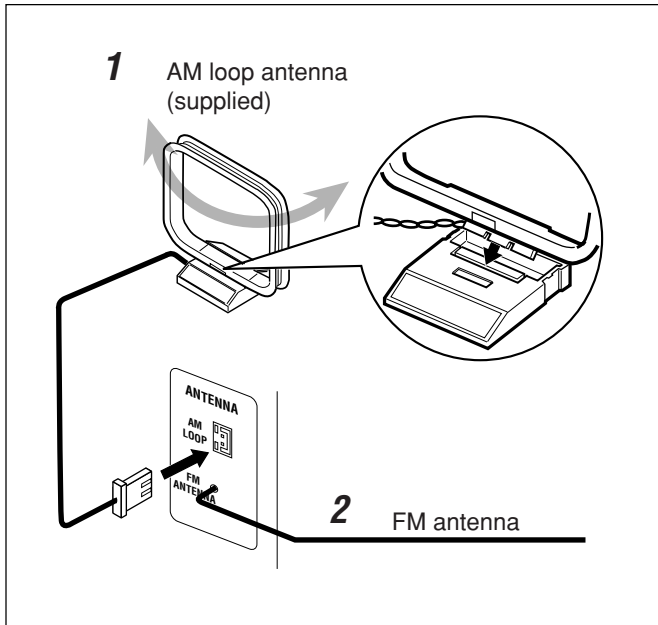
IMPORTANT:

- 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.

Getting Started (continued)

Do not connect the AC power cord until all other connections have been made.

To connect AM and FM antennas



1 Connect the supplied AM loop antenna to the AM LOOP terminal.

Place the antenna away from the unit and adjust its position for the best reception.

2 Adjust the position for the FM antenna for the best reception.



For better reception of both FM and AM

- Make sure the antenna conductors do not touch any other terminals or connecting cords.
- Keep the antennas away from metallic parts of the unit, connecting cords, and the AC power cord.

Connecting Other Equipment

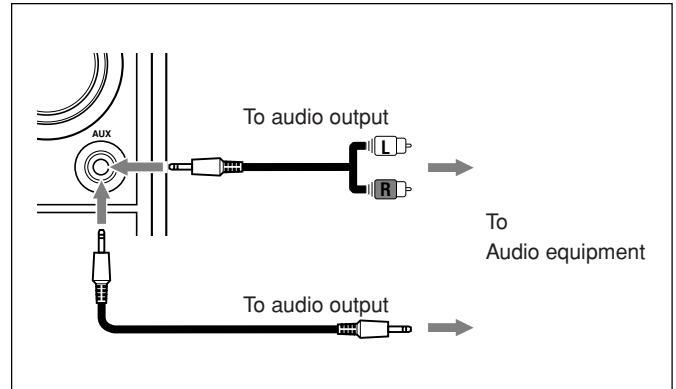
To connect audio equipment

You can connect audio equipment—used only as a playback device.



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

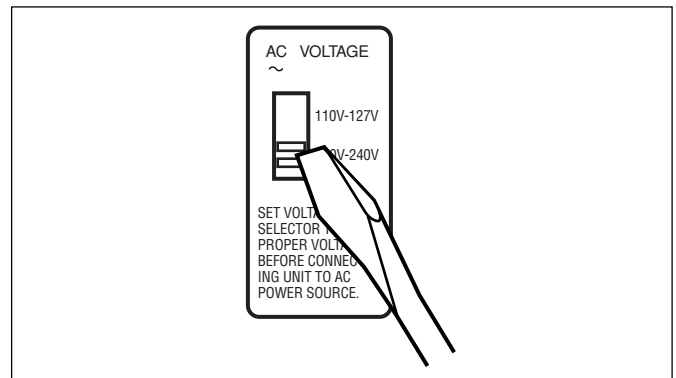
For playing other equipment through this unit, connect between the audio output jacks on the other equipment and AUX jacks by using audio cords with mini plugs (not supplied).



When the audio equipment has pin jacks for audio output: Be sure that the pin plugs of the audio cords are colored—white plugs and jacks are for left audio signals, and red ones for right audio signals.

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 screwdriver to move the voltage selector so the voltage number is the same as the voltage where you are plugging in the unit. (See the back cover page.)



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

NOW you are ready to plug in the unit.

- If the wall outlet does not match the AC plug, use the supplied AC adaptor.

IMPORTANT:

Be sure to check that all connections have been made before plugging in the power cord.

Setting the Clock

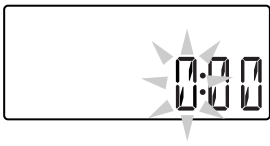
Before operating the unit any further, first set the unit's clock. When you plug in the power cord, "0:00" starts flashing on the display.

You can set the clock when the unit is either turned on or in standby mode.

On the remote control ONLY:

1 Press CLOCK/TIMER.

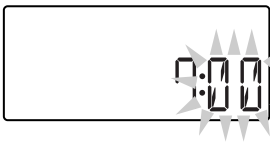
The hour indication starts flashing.



2 Press <|<< or >>>| to adjust the hour, then press SET.

- When you press and hold <|<< or >>>|, the hour indication changes continuously.

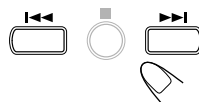
The minute indication starts flashing.



3 Press <|<< or >>>| to adjust the minute, then press SET.

- When you press and hold <|<< or >>>|, the minute indication changes continuously.

The built-in clock starts.



- **When you unplug the AC power cord or if a power failure occurs**
The clock is reset to "0:00" right away. If this happens, set the clock again.
- **The clock may gain or lose 1 to 2 minutes per month**
If this happens, reset the clock.

To show the clock when the unit is turned on

On the remote control ONLY:

Press DISPLAY.

- Each time you press the button, the display changes the clock indication and the normal indication alternately.



To adjust the clock

On the remote control ONLY:

1 Press CLOCK/TIMER repeatedly to show the current time indication.

- When the unit is in standby mode, be sure that ":" is not flashing.



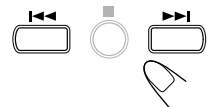
2 Press SET.

The hour indication starts flashing.



3 Press <|<< or >>>| to adjust the hour, then press SET.

The minute indication starts flashing.




4 Press <|<< or >>>| to adjust the minute, then press SET.

The built-in clock starts.




Turning On the Power

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

- When you press the source button—CD , TAPE, FM/AM and AUX, the unit automatically turns on.



To turn off the unit (standby), press STANDBY/ON  again.

The STANDBY lamp on the unit lights red.

- "0:00" flashes on the display until you set the built-in clock. After setting the clock, the clock time will appear on the display while the unit is on standby.
- A little power is always consumed even while the unit is in standby mode.

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 "0:00" right away and "0:00" starts flashing on the display when plugging the power cord again. If this happens, set the clock again.

Basic and Common Operations (continued)

Selecting the Source

To select the source, press CD ►/II, TAPE, FM/AM, or AUX.

- When you select CD as the source, playback starts automatically.

To operate the tuner (FM or AM), see pages 10 and 11.

To operate the CD player, see pages 12 to 14.

To operate the tape deck, see page 15.

To record on a tape, see pages 17 and 18.

To use an external equipment, see page 16.

Adjusting the Volume

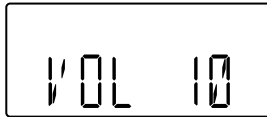
You can adjust the volume level only while the unit is turned on. The volume level can be adjusted between “VOL MIN,” “VOL 01” – “VOL 30,” and “VOL MAX.”

- The volume level has no effect on recording.

To increase the volume, press VOLUME + (or turn VOLUME control clockwise on the unit).

To decrease the volume, press VOLUME – (or turn VOLUME control counterclockwise on the unit).

- When you press and hold either button, you can change the volume level continuously.



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 the headphones.



DO NOT turn off (standby) the unit with the volume set to an extremely high level; Otherwise, the sudden blast of sound can damage your hearing, speakers and/or headphones when you turn on the unit or start playing any source. REMEMBER you cannot adjust the volume level while the unit is in standby mode.

Fade Muting

On the remote control ONLY:

Press FADE MUTING.

The volume level decreases to “VOL MIN,” and “MUTING” starts flashing on the display.



To release muting, press FADE MUTING again. The volume level resumes to the previous level.

- Adjusting the volume level also cancels the muting.

Selecting the Sound Modes

You can select one of the 4 sound modes.

- This function also affects the sound from headphones.
- This function only affects the playback sound, and does not affect your recording.

On the remote control ONLY:

To select the sound modes, press SOUND repeatedly.



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



ROCK: Powerful sound emphasizing treble and bass.

POP: More presence in the vocals and midrange.

CLASSIC: Enriched sound with fine treble and ample bass.

JAZZ: Accented lower frequencies for jazz-type music.

OFF: Equalizer effect is canceled.

When the sound mode is activated, the SOUND indicator lights up on the display.

Adjusting the Tone (Bass/Treble)

You can adjust the bass level (low frequency range) and the treble level (high frequency range) within a range of –1 to +4. When shipped, the bass level set to “BASS 0” and the treble level set to “TREBLE 0.”

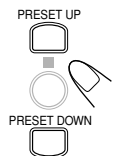
- This function only affects the playback sound, and does not affect your recording.
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start over from step 1.

On the remote control ONLY:

1 Press BASS/TREBLE once to adjust the bass level or press BASS/TREBLE twice to adjust the treble level.



2 Press PRESET UP to increase the level or press PRESET DOWN to decrease it.



- You cannot use the tone adjustment function and the sound mode function at the same time. (The sound mode changes automatically into “OFF” when pressing BASS/TREBLE.)
- The bass/treble setting automatically returns to “0” when you select one of the sound modes (see “Selecting the Sound Modes” above).

Setting the Tuner Interval Spacing

You can select 10 kHz or 9 kHz apart for the AM tuner interval spacing and 100 kHz or 50 kHz apart for the FM tuner interval spacing.

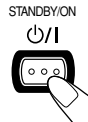
- The interval settings of AM and FM change together.

AM 10 kHz, FM 100 kHz ↔ AM 9 kHz, FM 50 kHz

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

On the remote control ONLY:

1 Press **STANDBY/ON** to turn off the unit (standby).

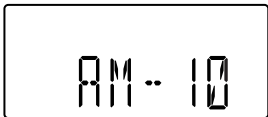


2 Press and hold **■** for a few seconds.

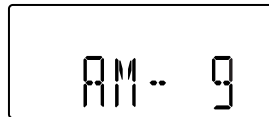
The current interval setting appears on the display.



AM 10 kHz, FM 100 kHz

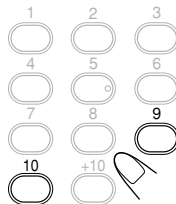


AM 9 kHz, FM 50 kHz



3 Press **10** or **9** to select the interval setting for your area.

- **10**: Sets the interval to 10 kHz (AM) and 100 kHz (FM).
- **9**: Sets the interval to 9 kHz (AM) and 50 kHz (FM).



The new interval setting appears on the display for a few seconds.



When you change the setting

The preset stations are erased. You will need to preset the stations again. (See page 11.)

Tuning in to a Station

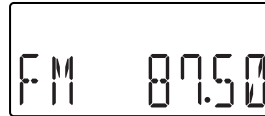
1 Press **FM/AM** to select either “FM” or “AM.”



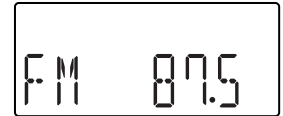
The unit automatically turns on and tunes in to the previously received station—either FM or AM.

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

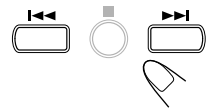
FM 50 kHz interval



FM 100 kHz interval



2 Press and hold **▶▶▶** or **◀◀◀** (or **UP ▶▶▶** or **DOWN ◀◀◀** on the unit) for more than 1 second.



- **▶▶▶** (UP **▶▶▶**): Increases the frequencies.
- **◀◀◀** (DOWN **◀◀◀**): Decreases the frequencies.

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

- If an FM program is broadcast in stereo, the **ST** (stereo) indicator lights up on the display (only when the reception is good).

To stop during searching, press **▶▶▶** or **◀◀◀** (or **UP ▶▶▶** or **DOWN ◀◀◀** on the unit).



When you repeatedly press **▶▶▶** or **◀◀◀** (or **UP ▶▶▶** or **DOWN ◀◀◀** on the unit)

The frequency changes step by step.

To change the FM reception mode

On the remote control ONLY:

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

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

- Changing the station also cancels the **MONO** mode.

Listening to FM and AM Broadcasts (continued)

Presetting Stations

You can preset 30 FM and 15 AM stations manually.

In some cases, test frequencies have been already stored 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 again from step 2.

On the remote control ONLY:

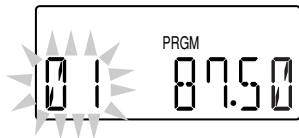
1 Tune in to the station you want to preset.

- See "Tuning in to a Station" on page 10.

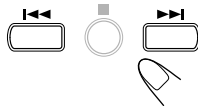
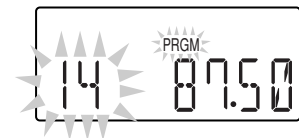
2 Press PLAY MODE.

The preset number starts flashing on the display.

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

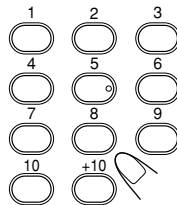


3 Press >>> or <<< to select a preset number.



You can also use the number button(s) to select a preset number.

- 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 30, press +10, +10, then 10.



4 Press PLAY MODE again.



5 To preset more stations, repeat steps 1 to 4 above, allocating a different preset number to each station.

- Storing a new station on an already assigned number erases the previously stored one.



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

The preset stations will remain in the unit.

Tuning in to a Preset Station

On the remote control ONLY:

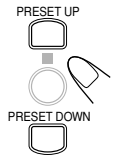
1 Press FM/AM to select either "FM" or "AM."



The unit automatically turns on and tunes in to the previously received station—either FM or AM.

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

2 Press PRESET UP or PRESET DOWN repeatedly to select a preset number.



To tune in to a preset station directly using the number buttons

On the remote control ONLY:

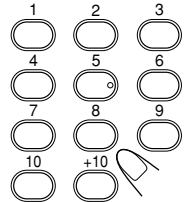
Pressing the number button(s) allows you to select the preset number you want.

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 30, press +10, +10, then 10.



This unit has been designed to play back the following discs—CD, CD-R, and CD-RW.

You can play back the discs containing the tracks in music CD format or MP3 files in ISO 9660 format.

- In this instruction, we call a disc recorded MP3 files “MP3 disc,” and “file” is also referred to as “track.”

When playing CD-Rs or CD-RWs

- Before playing CD-Rs or CD-RWs, read their instructions or cautions carefully.
- User-edited CD-Rs (CD-Recordable) and CD-RWs (CD-ReWritable) can be played only if they are already “finalized.”
- This unit supports “multi-session” discs (up to 5 sessions).
- This unit cannot play “packet write” discs.
- Some CD-Rs or CD-RWs may not play on this unit because of their disc characteristics, damage or stain on them, or if the player’s lens is dirty.
- CD-RWs may require a longer readout time. This is because the reflectance of CD-RWs is lower than for regular discs.

Notes for MP3 files

- The player can only recognize files with “MP3” or “mp3” as the extensions, which can be in any combination of upper and lower case.
- This unit recognizes up to 500 MP3 files on a disc.
- It is recommended that you record your material at a 44.1 kHz sampling rate, using the 128 kbps data transfer rate.
- Some MP3 files or discs may not be played back because of their characteristics or recording conditions.
- MP3 discs requires a longer readout time than normal discs because of the complexity of the folder/file configuration.
- ID3 Tag is not available.
- MP3i and MP3 Pro are not available.

General notes

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



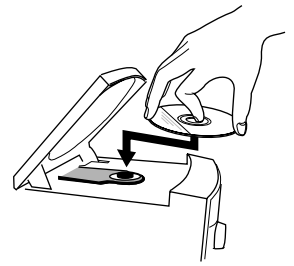
Playing Back the Entire Disc—Normal Play

1 Press OPEN on the unit.

The disc cover opens.

- You can insert a disc while listening to another source.

2 Place a disc correctly with its label side up, then press down on the portions around the disc’s center hole until you hear a click.



3 Close the disc cover gently.

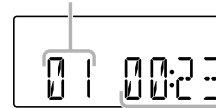
4 Press  CD ▶/II.

The unit automatically turns on and the source changes to the CD player. After loading the disc, the first track of the disc starts playing.



When playing audio CD

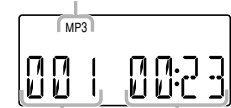
Current track number



Elapsed playing time

When playing MP3 disc

MP3 indicator



Current track number Elapsed playing time

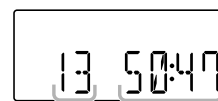
- The disc automatically stops when the last track has finished playing.

To stop playing, press .

The total track number and total playing time appear on the display.

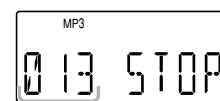


When stop playing audio CD




Total track number Total playing time

When stop playing MP3 disc



Total track number

- Total playing time does not appear when MP3 disc is loaded.

To remove the disc, press  OPEN on the unit, then take out the disc by holding it at the edges while pressing the unit’s pivot lightly.



- If the disc cannot be read correctly (because it is scratched, for example) or an unreadable CD-R or CD-RW is inserted Playback will not start.
- If no disc is inserted “NO DISC” appears on the display.



DO NOT try to open the disc cover by hand as it will be damaged.


Playing Back Discs (continued)

Basic Disc Operations

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


To stop playing for a moment

During play, press CD ►/||.

While pausing, the elapsed playing time flashes on the display. 

To resume playing, press CD ►/|| again.

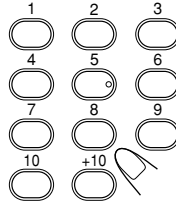
To go to another track

Before or during play, press ►►► or ◀◀◀ (or UP ►►► or DOWN ◀◀◀ on the unit) repeatedly. 

- ►►► (UP ►►►): Skips to the beginning of the next or succeeding tracks.
- ◀◀◀ (DOWN ◀◀◀): Goes back to the beginning of the current or previous tracks.

To go to another track directly using the number buttons

On the remote control ONLY:

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.

To locate a particular point in a track

During play, press and hold ►►► or ◀◀◀ (or UP ►►► or DOWN ◀◀◀ on the unit). 

- ►►► (UP ►►►): Fast-forwards the tracks.
- ◀◀◀ (DOWN ◀◀◀): Fast-reverses the tracks.

Programming the Track Playing Order —Program Play


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

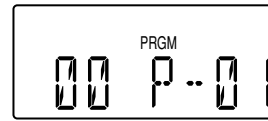
On the remote control ONLY:

1 Place a disc.

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

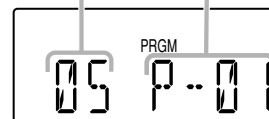
2 Press PLAY MODE.

The PRGM (program) indicator appears on the display. 



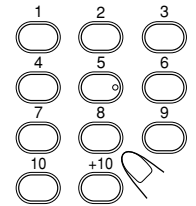
3 Press ►►► or ◀◀◀ to select the track number, then press PLAY MODE.

Track number Program step number



You can also use the number button(s) to select a track number.

- For the operation of the number buttons, see “To go to another track directly using the number buttons” on the left column.



4 Repeat step 3 to program other tracks you want.

5 Press CD ►/||.

The tracks are played in the order you have programmed. 




After programming a 32nd track

“FULL” will appear on the display for a while and the 32nd track number appears again.

To stop playing, press ■.

Playback stops and the play mode returns to Normal Play. 

To check the program contents

You can check the program contents by pressing PLAY MODE repeatedly before or after playback. 

To modify the program

Press PLAY MODE repeatedly until the program step number you want to modify appears. Then follow steps **3** and **4** of the programming procedure.



To add tracks in the program, press PLAY MODE repeatedly until "00" appears as the track number. Then follow steps **3** and **4** of the programming procedure.

To clear the program

Press PLAY MODE, then press ■ before or after playback.

The PRGM indicator disappears from the display.

- The programmed tracks are also erased in the following cases:
 - When pressing ▲ OPEN to open the disc cover.
 - When turning off the unit.
 - When changing the source.



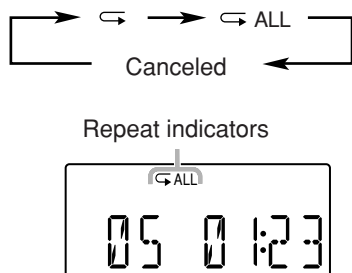
Repeating Tracks—Repeat Play

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

On the remote control ONLY:

Press REPEAT repeatedly before or during playback.

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



- ↶ : Repeats one track.
- ↶↶ ALL: In Normal Play, repeats all the tracks.
In Program Play, repeats all the tracks in the program.

To cancel Repeat Play, press REPEAT repeatedly until the repeat indicator goes off.

- Repeat Play is canceled when you select another play mode (Normal, Program, or Random Play).
- In Random Play, Repeat Play cannot be selected.



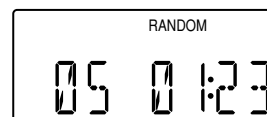
Playing at Random—Random Play

You can play the tracks at random.

On the remote control ONLY:

Press PLAY MODE during playing.

The RANDOM indicator lights up on the display.



To exit from Random Play, press PLAY MODE again.

The RANDOM indicator goes off.

- It is not possible to activate the Random Play function during Program Play.



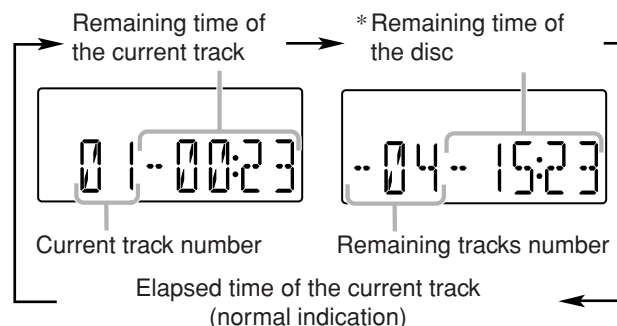
Displaying the Remaining Time during Playback

You can display the remaining time of the current track/disc and the elapsed time of the current track/disc during playing.

On the remote control ONLY:

Press REMAIN repeatedly.

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



* Remaining time of the disc will not be displayed in the following cases:

- During MP3 playback.
- During Random Play.
- During Program Play.

Playing Back Tapes

For tape operations, use buttons on the unit.

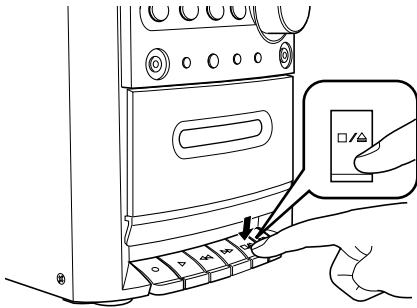
Playing Back a Tape

You can play back type I tapes only.

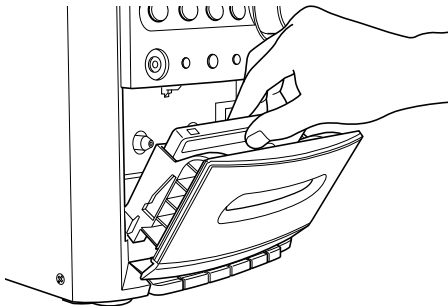
On the unit ONLY:

1 Press □/△ (stop/cassette holder open).

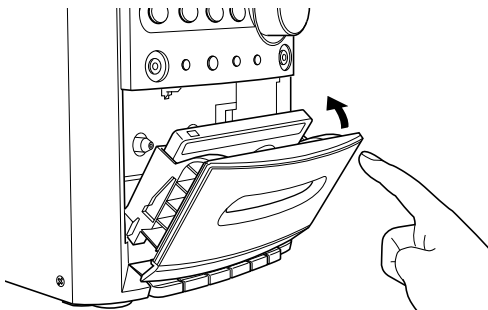
The cassette holder opens.



2 Put a cassette in with the exposed part of the tape down.



3 Close the cassette holder gently.



4 Press TAPE.

The unit automatically turns on and the source changes to the tape deck.

- You can select to the tape by pressing TAPE on the remote control.

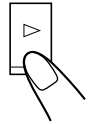
TAPE



5 Press ▷ (play).

The tape starts playing.

- When the end of the tape is reached, playing stops.

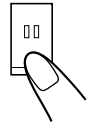


To stop playing, press □/△.



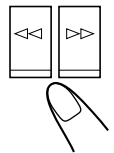
To stop playing for a moment, press |||.

To resume playing, press ||| again.

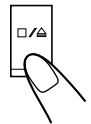


To fast forward or rewind the tape, press ▷▷ or ◀◀.

- The fast forwarding or rewinding stops at the end of the tape.



To remove the cassette, press □/△ while playback is stopped.



- DO NOT turn off the unit while playing back or recording a tape. The cassette deck or tapes may be damaged.
- The use of C-120 or longer tape is not recommended, since characteristic deterioration may occur and this tape easily jams in the pinch rollers and the capstans.
- This unit is not compatible with type II and type IV tapes.

Using an External Equipment

Listening to the External Equipment

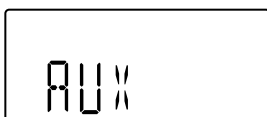
You can listen to the external equipment such as MD recorder, cassette deck, or other auxiliary.

- First, make sure that the external equipment is properly connected to the unit. (See page 7.)

1 Set the volume level to the minimum position.

2 Press AUX.

“AUX” appears on the display.



3 Start playing the external equipment.

4 Adjust the volume level to the level you want to listen to.

To exit AUX mode, select other source.



For operation of the external equipment

Refer to its instructions.

Recording

IMPORTANT:

- It may be unlawful to record or playback copyright material without the consent of the copyright owner.
- The recording level is automatically set correctly, so it is not affected by the other sound settings. Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
- If recordings you have made have excessive noise or static, the unit may be too close to a TV. Increase the distance between the TV and the unit.
- You can only use type I tape for recording.



- DO NOT turn off the unit while playing back or recording a tape. The cassette deck or tapes may be damaged.
- DO NOT use type II and type IV tapes since the unit is not compatible with such tapes.
- The use of C-120 or longer tape is not recommended, since characteristic deterioration may occur and this tape easily jams in the pinch rollers and the capstans.



At the start and end of cassette tapes

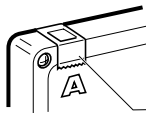
There is leader tape which cannot be recorded onto. Thus, when recording from discs, FM/AM broadcasts, or external equipment, wind the leader tape first to ensure that the recording will be made without losing any music.

To protect your recordings

Cassettes have two small tabs on the back to protect against 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.



Adhesive tape

Recording on a Tape

On the unit ONLY:

1 Put a recordable cassette in with the exposed part of the tape down.

- See also page 15.

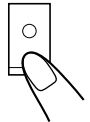
2 Close the cassette holder gently.

3 Start playing the source—FM, AM, or auxiliary equipment connected to AUX jack.

- When the source is FM or AM, tune in to the station you want to record.
- When recording from discs, see “Recording Discs—Disc Synchronized Recording” on page 18.

4 Press \circ (recording).

- \circ and \triangleright lock down, and the recording starts.
- REC indicator is shown on the display during recording.

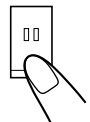


You cannot press \circ (recording) in the following cases:

- If no cassette is inserted.
- If a protected tape is inserted.

To stop recording for a moment, press $\square\square$.

To resume recording, press $\square\square$ again.



To stop recording, press \square/\triangle .



To remove the cassette, press \square/\triangle while recording is stopped.



Recording Discs

—Disc Synchronized Recording

You can start disc play and recording at the same time.

On the unit ONLY:

1 Put a recordable cassette in with the exposed part of the tape down.

- See also page 15.

2 Close the cassette holder gently.

3 Press CD ►/|| to select the CD player as the source.

CD



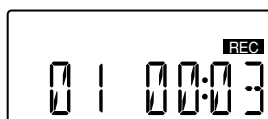
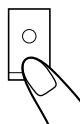
4 Press ■ to stop the disc playback.

- If you want to start recording from a particular track, select the beginning track using UP ►► or DOWN ◀◀, then go to the next step.
- If you want to make a program, perform steps 2 to 4 on page 13. After making a program, go to the next step.



5 Press ○ (recording).

The REC indicator appears on the display and the CD starts playback automatically and the recording starts.



- When the end of the tape is reached, recording stops and the CD player is paused.
- If you press ○ (recording) while playing back the CD, the CD player returns to the beginning of that track and the track is recorded on the tape.



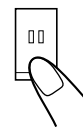
You cannot press ○ (recording) in the following cases:

- If no cassette is inserted.
- If a protected cassette is inserted.

To stop recording for a moment, press ||.

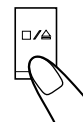
The recording is paused, but the CD playback does not stop.

To resume recording, press || again.



To stop recording, press □/△.

The recording stops and the CD playback is paused.



To remove the cassette, press □/△ while recording is stopped.



Using the Timers

Daily Timer and Sleep Timer are available.

- Before using these timers, make sure the built-in clock is set correctly (see page 8).

Using the Daily Timer

You can store three Daily timer settings and use one of settings at once.

How the Daily Timer actually works

When the on-time comes, the unit automatically turns on and automatically turns off (standby) after 60 minutes.

- Once the timer has been set, it will be activated at the same time everyday until the timer is turned off and the timer setting remains in memory until you change it.

Before you start...

When using "TUNER" as the source to play, make sure to select the desired station before turning off the power.

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

On the remote control ONLY:

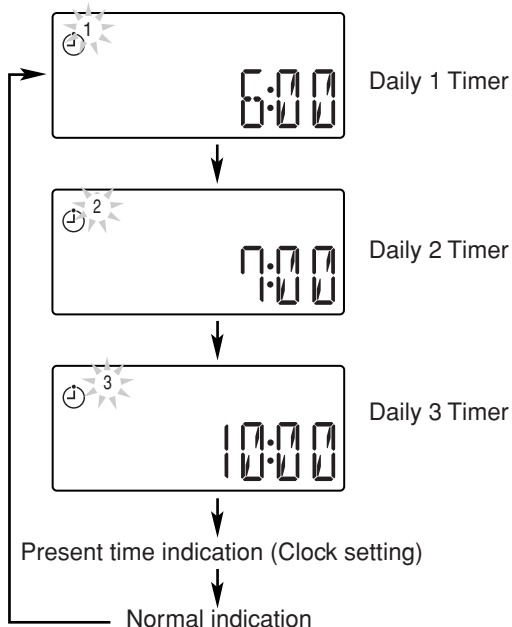
- 1 Press STANDBY/ON  to turn on the unit.**



- 2 Press CLOCK/TIMER repeatedly to select the Daily Timer you want to adjust and activate—Daily 1, Daily 2, Daily 3.**



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







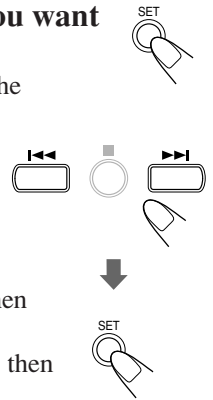
If you does not need to change the on-time setting, go to step 3.


- 3 Press SET to set the on-time you want the unit to turn on.**

The hour indication starts flashing on the display.



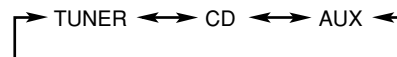
- (1) Press  or  to set the hour, then press SET.
- (2) Press  or  to set the minute, then press SET.
- If you want to change the time setting, press CANCEL.



- 4 Press  or  to select the source to play.**



Each time you press the button, the source changes as follows:



When selecting AUX, prepare the external equipment so that it will turn on at the on-time set on the unit.

To allow this, the equipment should have the timer function.

If you want to change the time setting, press CANCEL repeatedly to return Step 3.

- 5 Press SET.**

The Daily Timer number remains lit. The display returns to the normal indication.

- When you want to activate other timer than the adjusted one, press TIMER on the unit repeatedly. See also "To change the Daily Timer to use" on page 20 for details.

- 6 Press VOLUME +/- to adjust the volume.**



- 7 Press STANDBY/ON  to turn off the unit.**



To deactivate the timer temporarily,
press TIMER on the unit repeatedly until the  (timer)
indicator goes off.

To change the Daily Timer to use,
press TIMER on the unit repeatedly until the timer number
indicator you want begins to flash.

The timer is activated after a few seconds and the selected
timer number remains lit.

- To change the timer setting, repeat steps **1** to **7** on page 19.



**If the unit is already turned on when the timer on-time
comes**

The timer does not work.



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

The timer setting remains. Set the built-in clock and activate the
timer again.

Using the Sleep Timer

With the Sleep Timer, you can fall asleep to your favorite
music or radio program.

- You can set the Sleep Timer only when the unit is turned
on.

How the Sleep Timer actually works

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

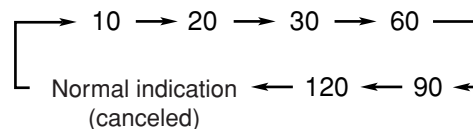
On the remote control ONLY:

1 Press SLEEP.

The SLEEP indicator flashes on the display.



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



2 Wait for about 5 seconds after specifying the length of time.

The SLEEP indicator remains lit on the display.

To check the remaining time until shut-off time, press
SLEEP once. The remaining time until shut-off time appears
for about 5 seconds.

To change the shut-off time, press SLEEP repeatedly until
the length of time you want appears.

To cancel the setting, press SLEEP repeatedly until the
SLEEP indicator goes off and display returns to the normal
indication.

- Turning off the unit also cancels the Sleep Timer.



**When you set the Sleep Timer after the Daily Timer
starts playing the selected source**

The unit follows the Sleep Timer setting.



**If you set the Sleep Timer while playing back or
recording a tape**

Do not shut the unit off with the Sleep Timer while a tape is running.
If the unit turns off while playing back or recording a tape, the
cassette deck or tapes may be damaged.

Maintenance

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

General Notes

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

- Store discs and tapes in their cases, and keep them in cabinets or on shelves.

Cleaning the unit

• Stains on the unit

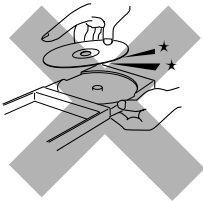
Should be wiped off with a soft cloth. If the unit is heavily stained, wipe it with a cloth soaked in water-diluted neutral detergent and wrung well, then wipe clean with a dry cloth.

- **Since the unit may deteriorate in quality, become damaged or have its paint peel off, be careful about the following:**
 - DO NOT wipe it with a rough cloth.
 - DO NOT wipe it too vigorously.
 - DO NOT wipe it with thinner or benzine.
 - DO NOT apply any volatile substance such as an insecticide to it.
 - DO NOT allow any rubber or plastic to remain in contact with it for a long time.

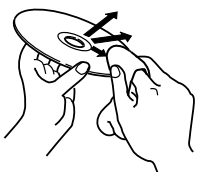
Handling discs



- 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.



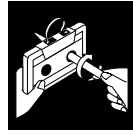
To clean the disc

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

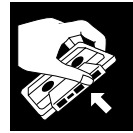


DO NOT use any solvent—such as conventional record cleaner, spray, thinner, or benzine—to clean the disc.

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.

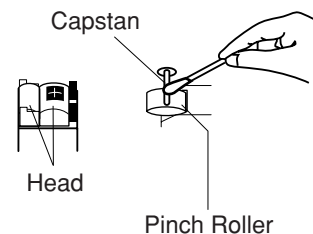


- Avoid storing tapes in any of the following places:
 - In dusty places
 - In direct sunlight or heat
 - In moist areas
 - On a TV or speaker
 - Near a magnet

To keep the best recording and playback sound quality

You need to clean the heads.

- Clean the heads after every 10 hours of use with a wet-type head cleaning tape (available at electronic and audio shops).
When the head becomes dirty, the following symptoms will occur:
 - Sound quality is reduced.
 - Sound level decreases.
 - Sound drops out.
- Do not play dirty or dusty tapes.
- Do not touch the highly-polished head with any metallic or magnetic tools.



To demagnetize the head

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

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	Possible Cause	Action
Power does not come on.	The power cord is not connected to an AC outlet.	Insert the plug into the socket.
No sound is heard.	<ul style="list-style-type: none"> • Connections are incorrect or loose. • A pair of headphones is connected. • MP3 disc is recorded with "packet writing." 	<ul style="list-style-type: none"> • Check all connections and make corrections. (See pages 6 and 7.) • Unplug the headphones from the PHONES jack. • It cannot be played. Replace the disc.
Hard to listen to broadcasts because of noise.	<ul style="list-style-type: none"> • Antennas are disconnected. • The AM loop antenna is too close to the unit. • The FM antenna is not properly extended and positioned. 	<ul style="list-style-type: none"> • Reconnect the antenna correctly and securely. • Change the position and direction of the AM loop antenna. • Extend FM antenna and orient to the best reception position.
The disc does not play.	The disc is upside down.	Put the disc in with the label side up.
Specific files (tracks) on an MP3 disc are not played.	Files other than MP3 are included in the disc.	They cannot be played.
Impossible to record.	Small tabs on the back of the cassette are removed.	Cover the holes with adhesive tape.
Operations are disabled.	The built-in microprocessor has malfunctioned due to external electrical interference.	Unplug the AC power cord then plug it back in.
Unable to operate the unit by the remote control.	<ul style="list-style-type: none"> • The path between the remote control and the remote sensor on the unit is blocked. • The batteries are exhausted. • You are using the remote control too far from the unit. 	<ul style="list-style-type: none"> • Remove the obstruction. • Replace the batteries. (See page 6.) • Signals cannot reach the remote sensor. Move closer to the unit.

Specifications

Design and specifications are subject to change without notice.

Amplifier Section—CA-UXH100

Output Power:
10 W per channel, min. RMS, driven into 6 Ω at 1 kHz,
with no more than 10% total harmonic distortion
(IEC 268-3)

Speakers/Impedance: 6 Ω – 16 Ω

Tuner

FM tuning range:
FM 100 kHz intervals: 87.5 MHz—108.0 MHz
FM 50 kHz intervals: 87.50 MHz—108.00 MHz

AM tuning range:
AM 10 kHz intervals: 530 kHz—1 710 kHz
AM 9 kHz intervals: 531 kHz—1 710 kHz

CD player

Dynamic range: 85 dB
Signal-to-noise ratio: 85 dB
Wow and flutter: Immeasurable

Cassette deck

Frequency response:
Normal (type I): 100 Hz—10 000 Hz
Wow and flutter: 0.35 % (WRMS)

General

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

Power consumption: 38 W (at operation)
2 W (on standby)

Dimensions (W/H/D) (approx.):
144 mm x 255 mm x 277 mm

Mass (approx.): 2.9 kg

Supplied accessories

See page 6.

Speaker Section—SP-UXH100

Type: Full range Bass-reflex type

Speakers: 10 cm cone x1

Power handling capacity: 10 W

Impedance: 6 Ω

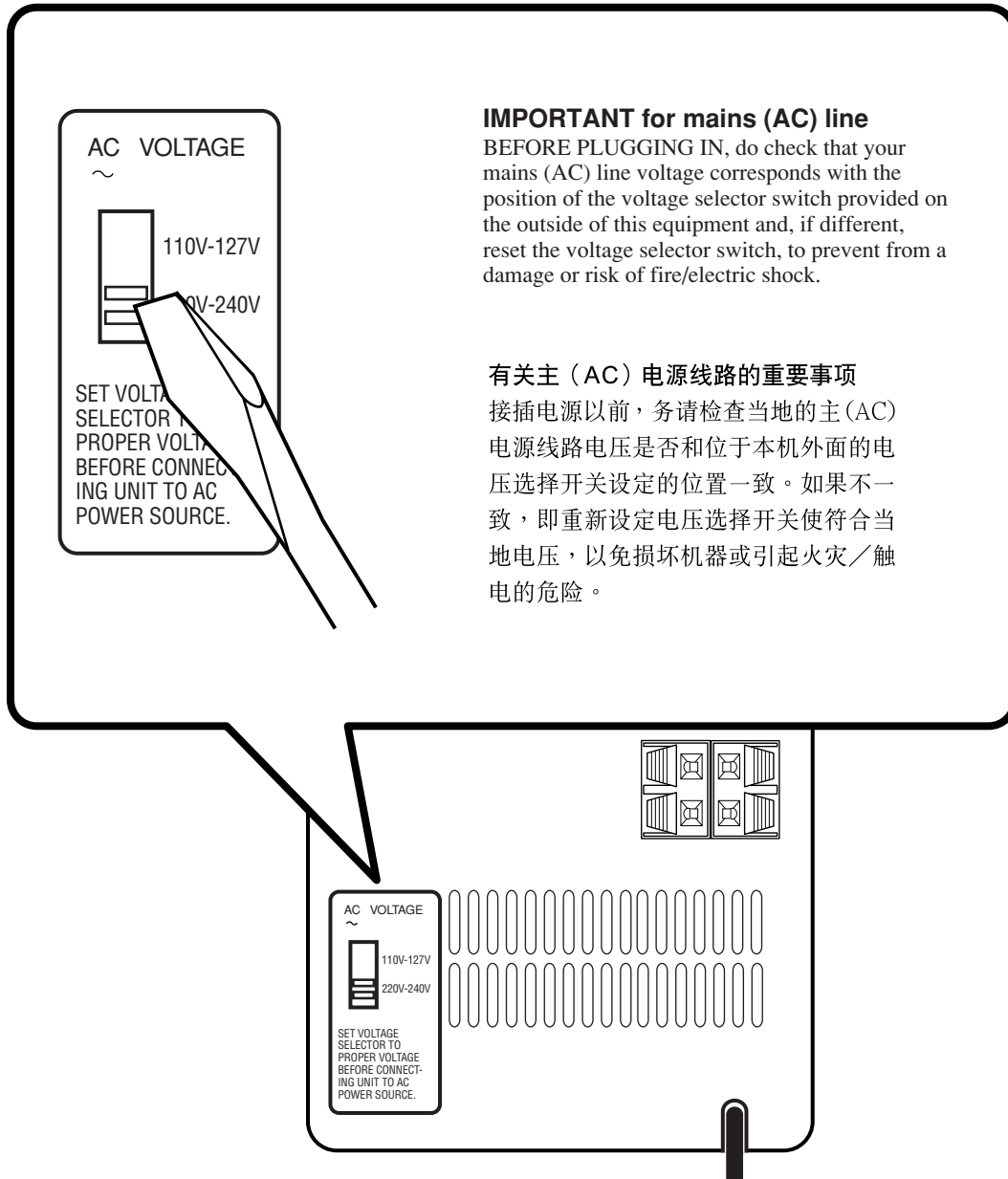
Frequency range: 100 Hz to 15 kHz

Dimensions (W/H/D) (approx.):
130 mm x 257 mm x 151 mm

Mass (approx.): 1.5 kg each

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)



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