JVC

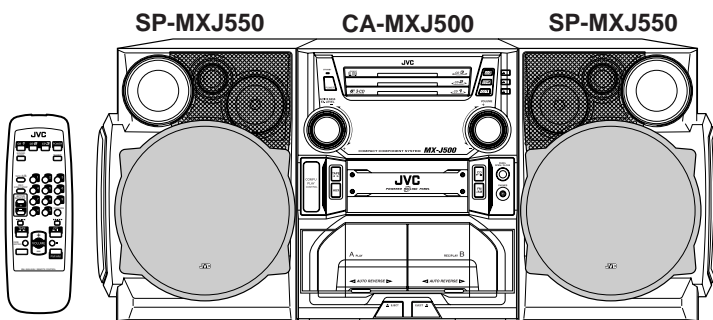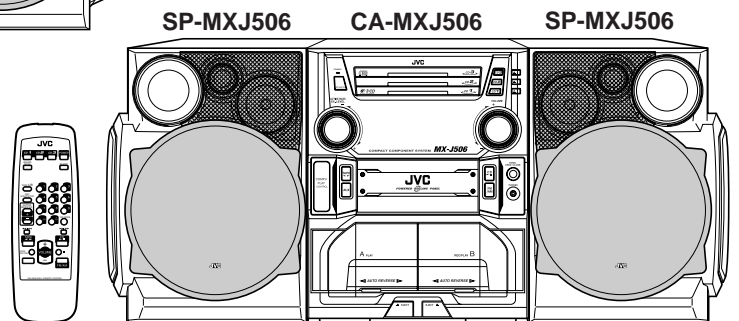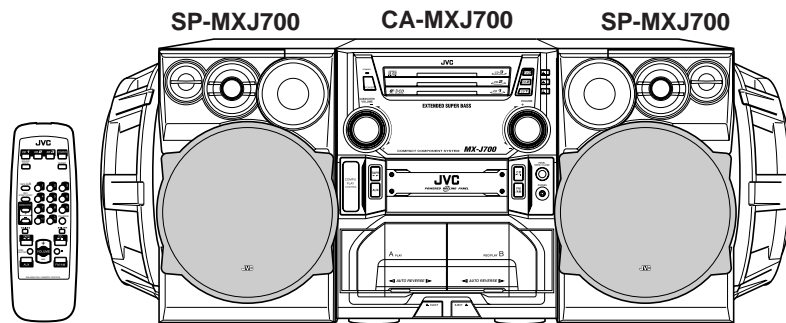# COMPACT COMPONENT SYSTEM

SYSTEME DE COMPOSANTS COMPACT

MX-J700
— Consists of CA-MXJ700 and SP-MXJ700.
— Composé du CA-MXJ700 et SP-MXJ700.

MX-J506
— Consists of CA-MXJ506 and SP-MXJ506.
— Composé du CA-MXJ506 et SP-MXJ506.

MX-J500
— Consists of CA-MXJ500 and SP-MXJ550.
— Composé du CA-MXJ500 et SP-MXJ550.

SP-MXJ700   CA-MXJ700   SP-MXJ700

SP-MXJ506   CA-MXJ506   SP-MXJ506

SP-MXJ550   CA-MXJ500   SP-MXJ550

COMPACT

disc

DIGITAL AUDIO

INSTRUCTIONS
MANUEL D'INSTRUCTIONS

For Customer Use:
Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.
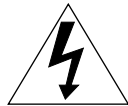
Model No.

Serial No.

GVT0029-002A
[C]

Warnings, Cautions and Others
Mises en garde, précautions et indications diverses

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For U.S.A.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

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.

ATTENTION
Afin d'éviter tout risque d'électrocution, d'incendie, etc.:
1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

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

Attention — Commutateur POWER!
Déconnecter la fiche de secteur pour couper complètement
le courant. Le commutateur POWER ne coupe jamais
complètement la ligne de secteur, quelle que soit sa position.
Le courant peut être télécommandé.

1. CLASS 1 LASER PRODUCT
2. **DANGER**: Invisible laser radiation when open and
   interlock failed or defeated. Avoid direct exposure to
   beam.
3. **CAUTION**: Do not open the top cover. There are no user
   serviceable parts inside the Unit; leave all servicing to
   qualified service personnel.

1. PRODUIT LASER CLASSE 1
2. **ATTENTION:** Radiation laser invisible quand l'appareil
   est ouvert ou que le verrouillage est en panne ou
   désactivé. Eviter une exposition directe au rayon.
3. **ATTENTION:** Ne pas ouvrir le couvercle du dessus. Il n'y
   a aucune pièce utilisable à l'intérieur. Laisser à un
   personnel qualifié le soin de réparer votre appareil.

For Canada/pour le Canada
CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE
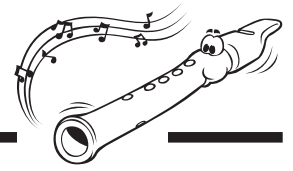BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES,
INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS
LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER
JUSQUAU FOND.

For Canada/pour le Canada
THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS
B LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL
APPARATUS AS SET OUT IN THE INTERFERENCE-CAUSING
EQUIPMENT STANDARD ENTITLED "DIGITAL APPARATUS,"
ICES-003 OF THE DEPARTMENT OF COMMUNICATIONS.
CET APPAREIL NUMERIQUE RESPECTE LES LIMITES DE
BRUITS RADIOELECTRIQUES APPLICABLES AUX
APPAREILS NUMIRIQUES DE CLASSE B PRESCRITES DANS
LA NORME SUR LE MATERIEL BROUILLEUR: "APPAREILS
NUMERIQUES", NMB-003 EDICTEE PAR LE MINISTRE DES
COMMUNICATIONS.

Introduction

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

About This Manual

This manual is organized as follows:

- **The manual mainly explains operations using the buttons and controls on the unit. You can also use the buttons on the remote control if they have the same or similar names (or marks) as those on the unit. If operation using the remote control is different from that using the unit, it is then explained.**
- Basic and common information that is the same for many functions is grouped in one place, and is not repeated in each procedure. For instance, we do not repeat the information about turning on/off the unit, setting the volume, changing the sound effects, and others, which are explained in the section "Common Operations" on pages 9 to 11.
- The following marks are used in this manual:

> Gives you warnings and cautions to prevent damage or risk of fire/electric shock.
> Also gives you information which is not good for obtaining the best possible performance from the unit.

> Gives you information and hints you had better know.

Precautions

Installation

- Install in a place which is level, dry and neither too hot nor too cold — between 5˚C (41˚F) and 35˚C (95˚F).
- Install the unit in a location with adequate ventilation to prevent internal heat built-up in the unit.
- Leave sufficient distance between the unit and the TV.
- Keep the speakers away from the TV to avoid interference with TV.

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

Power sources

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

> DO NOT handle the AC power cord with wet hands.

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:
- After starting heating in the room
- In a damp room
- If the unit is brought directly from a cold to a warm place

Should this occur, the unit may malfunction. In this case, leave the unit turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.
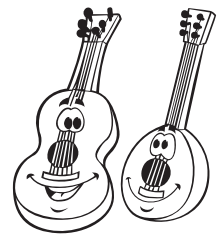
Others

- Should any metallic object or liquid fall into the unit, unplug the unit and consult your dealer before operating any further.
- If you are not going to operate the unit for an extended period of time, unplug the AC power cord from the wall outlet.

> DO NOT disassemble the unit since there are no user serviceable parts inside.

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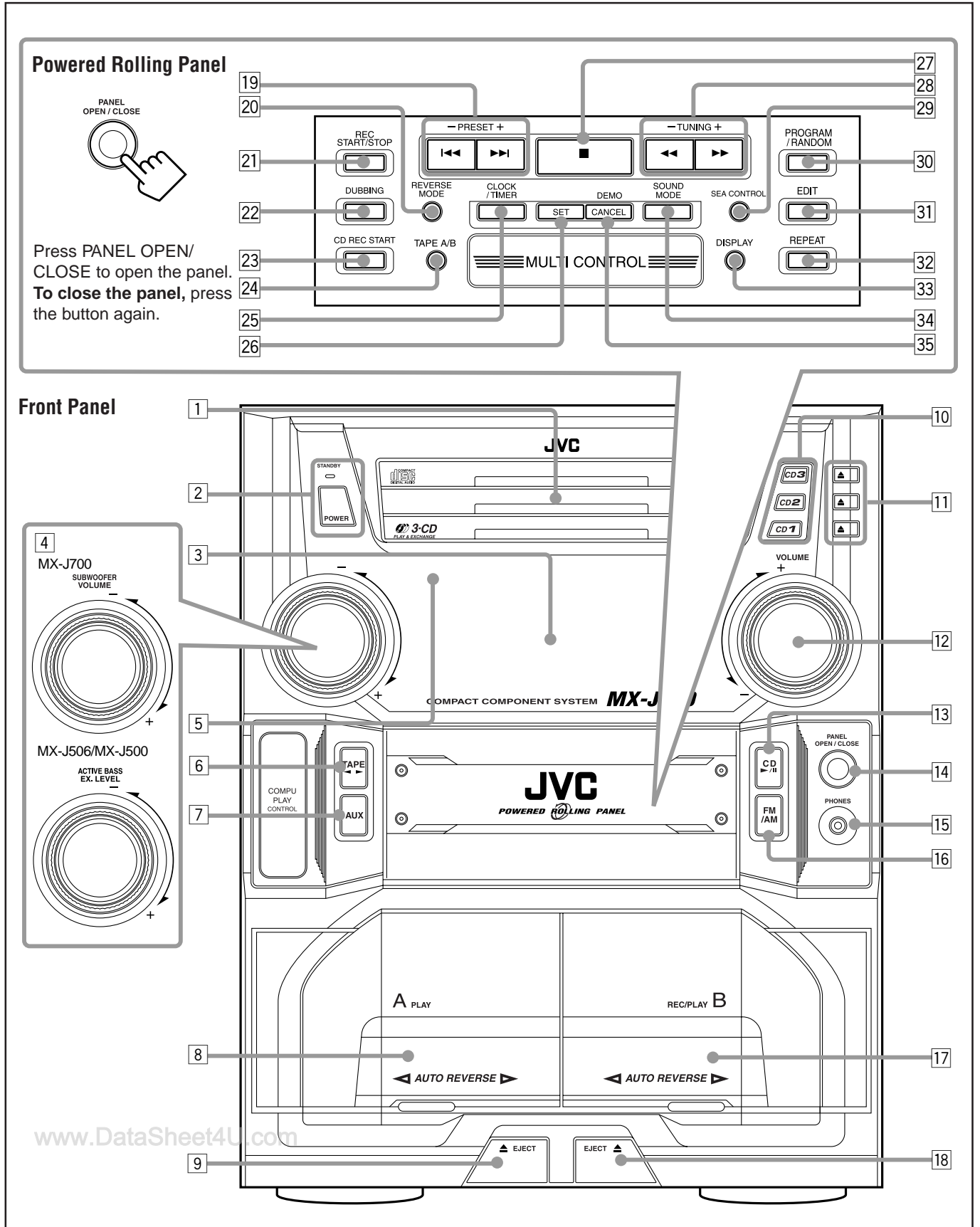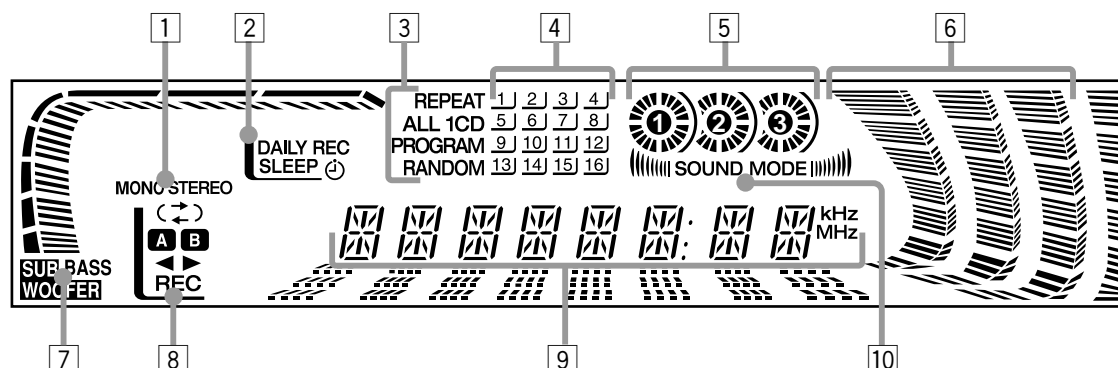
Contents

Location of the Buttons and Controls

Become familiar with the buttons and controls on your unit.

Front Panel

Powered Rolling Panel

PANEL
OPEN / CLOSE

Press PANEL OPEN/
CLOSE to open the panel.
To close the panel, press
the button again.

|19| — PRESET +
|20|
|21| REC START/STOP
|22| DUBBING
|23| CD REC START
|24| REVERSE MODE
|25| CLOCK / TIMER
|26| SET

|27|
|28|
|29|
|30| PROGRAM / RANDOM
|31| EDIT
|32| REPEAT
|33| DISPLAY
|34|
|35|

DEMO CANCEL
SOUND MODE
SEA CONTROL
— TUNING +
MULTI CONTROL
TAPE A/B

Front Panel

|1|
|2|
|4|
MX-J700
SUBWOOFER VOLUME
|3|
|5|
MX-J506/MX-J500
ACTIVE BASS EX. LEVEL
|6| TAPE
|7| AUX
COMPU PLAY CONTROL

STANDBY
POWER

JVC
COMPACT
3-CD
PLAY & EXCHANGE

COMPACT COMPONENT SYSTEM **MX-J**

JVC
POWERED ROLLING PANEL

|10|
|11|
CD3 CD2 CD1
VOLUME +
|12|
|13| CD ►/II
|14| PANEL OPEN / CLOSE
|15| PHONES
|16| FM /AM

A PLAY
◄ AUTO REVERSE ►

REC/PLAY B
◄ AUTO REVERSE ►

|8|
|9| ▲ EJECT

EJECT ▲
|17|
|18|

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– 3 –

Display Window

See pages in the parentheses for details.

Front Panel

1 Disc trays
2 POWER button and STANDBY lamp (9)
3 Display window
4 For MX-J700: SUBWOOFER VOLUME control (10)
  For MX-J506/MX-J500: ACTIVE BASS EX. (extension) LEVEL control (10)
5 Remote sensor
6 TAPE ◀ ▶ button and lamp (9, 16)
  Pressing this button also turns on the unit.
7 AUX button and lamp (9)
  Pressing this button also turns on the unit.
8 Deck A cassette holder (16)
9 ▲ EJECT button for deck A (16)
10 Disc number buttons (CD1, CD2, and CD3) (13)
  Pressing one of these buttons also turns on the unit.
11 ▲ (CD tray open/close) buttons (13)
  Pressing one of these buttons also turns on the unit.
12 VOLUME control (10)
13 CD ▶/❙❙ (play/pause) button and lamp (9, 13)
  Pressing this button also turns on the unit.
14 PANEL OPEN/CLOSE button (9)
  Pressing this button also turns on the unit.
15 PHONES jack (10)
16 FM/AM button and lamp (9, 12)
  Pressing this button also turns on the unit.
17 Deck B cassette holder (16, 17)
18 EJECT ▲ button for deck B (16, 17)

Powered Rolling Panel

19 PRESET – / + buttons (12)
  ❙◀◀ / ▶▶❙ (reverse search/forward search) buttons (9, 11, 14, 19 – 22)
20 REVERSE MODE button (16 – 19)
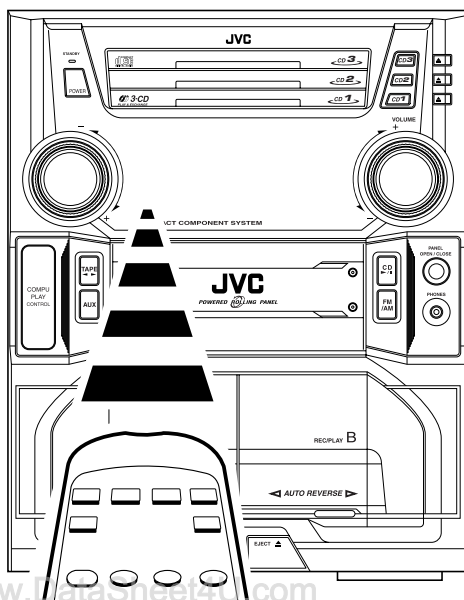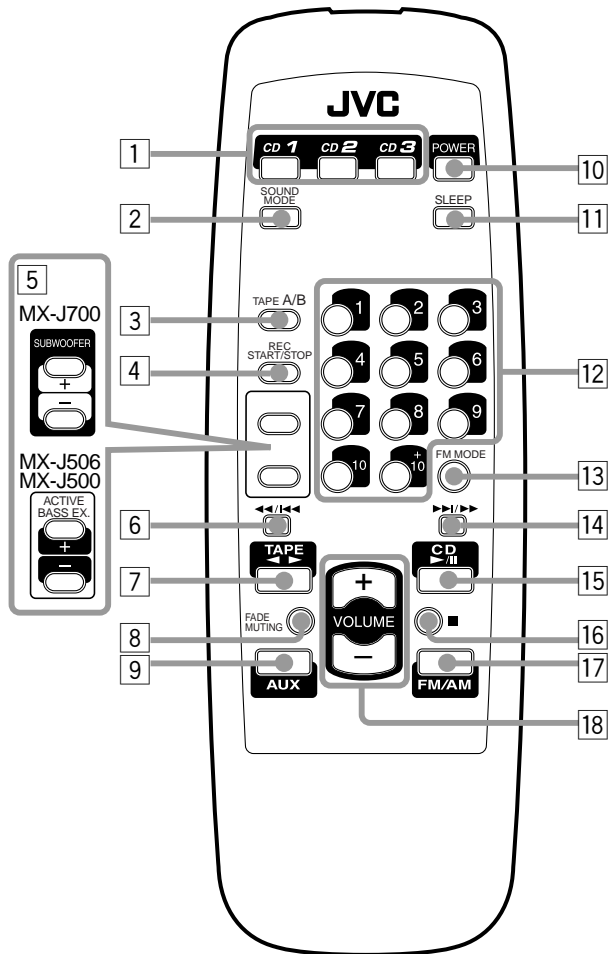21 REC START/STOP button (17, 19)
22 DUBBING button (18)
23 CD REC START button (18, 19)
24 TAPE A/B button (16)
25 CLOCK/TIMER button (9, 20 – 22)
26 SET button (9, 12, 20 – 22)
27 ■ (stop) button (13 – 19)
28 TUNING – / + buttons (12)
  ◀◀ / ▶▶ (fast left/fast right) buttons (11, 14, 16)
29 SEA CONTROL button (11)
30 PROGRAM/RANDOM button (14, 15, 18)
31 EDIT button (19)
32 REPEAT button (15)
33 DISPLAY button (9)
34 SOUND MODE button (10)
35 CANCEL button (9, 15, 20)
  DEMO button (8)

Display window

1 Tuner operation indicators
  • MONO and STEREO indicators
2 Timer indicators
  • DAILY (Daily Timer), REC (Recording Timer), SLEEP, and ⏱ (Timer) indicators
3 CD play mode indicators
  • REPEAT (ALL/1CD/1), PROGRAM, and RANDOM indicators
4 CD track number indicators
5 Disc indicators
6 Audio level indicator
  SEA (Sound Effect Amplifier) pattern indicator
7 For MX-J700: SUBWOOFER indicator (10)
  For MX-J506/MX-J500: BASS indicator (10)
8 Tape operation indicators
  • (⟲) (reverse mode), A/B (operating deck), ◀ ▶ (tape direction), and REC (recording) indicators
9 Main display
  • Shows the source name, frequency, etc.
10 SOUND MODE indicator

– 4 –

Remote Control

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

Remote Control

1 Disc number buttons (CD1, CD2, and CD3) (13)
   Pressing one of these buttons also turns on the unit.
2 SOUND MODE button (10)
3 TAPE A/B button (16)
4 REC START/STOP button (17, 19)
5 For MX-J700: SUBWOOFER + / – buttons (10)
   For MX-J506/MX-J500:
        ACTIVE BASS EX. (extension) + / – buttons (10)
6 ◄◄ / I◄◄ (fast left/reverse search) button (14 – 16)
7 TAPE ◄ ► button (9, 16)
   Pressing this button also turns on the unit.
8 FADE MUTING button (10)
9 AUX button (9)
   Pressing this button also turns on the unit.
10 POWER button (9)
11 SLEEP button (22)
12 Number buttons (12, 14)
13 FM MODE button (12)
14 ►►I / ►► (forward search/fast right) button (14 – 16)
15 CD ►/II button (9, 13)
   Pressing this button also turns on the unit.
16 ■ (stop) button (13 – 19)
17 FM/AM button (9, 12)
   Pressing this button also turns on the unit.
18 VOLUME + / – buttons (10)
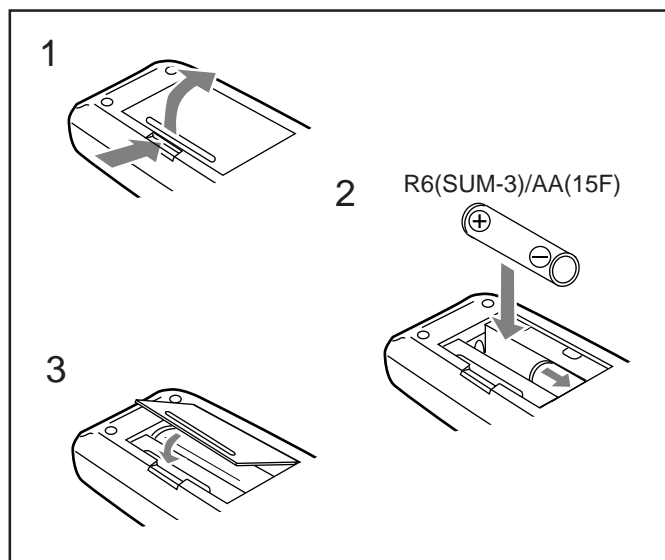
Getting Started

Unpacking

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

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

If any is missing, consult your dealer immediately.

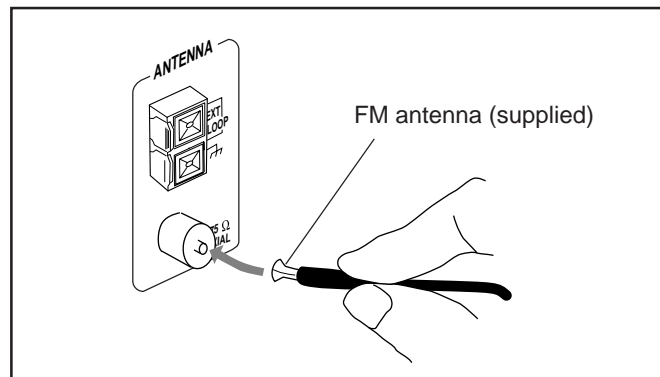## Putting the Batteries into the Remote Control

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

1

2 R6(SUM-3)/AA(15F)

3

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

Connecting Antennas

FM antenna

FM antenna (supplied)

1 **Attach the FM antenna to the FM 75 Ω COAXIAL terminal.**

2 **Extend the FM antenna.**

3 **Fasten it up in the position which gives you the best reception, then fix it on the wall, etc.**
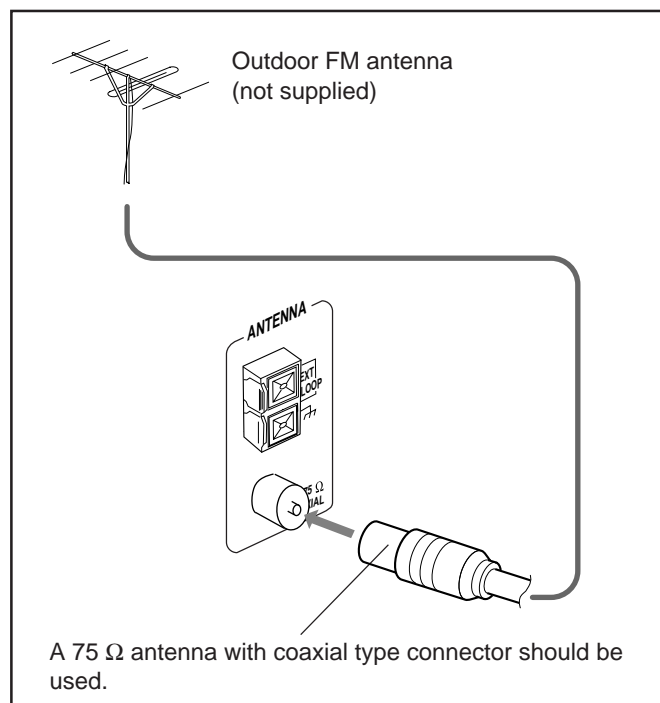
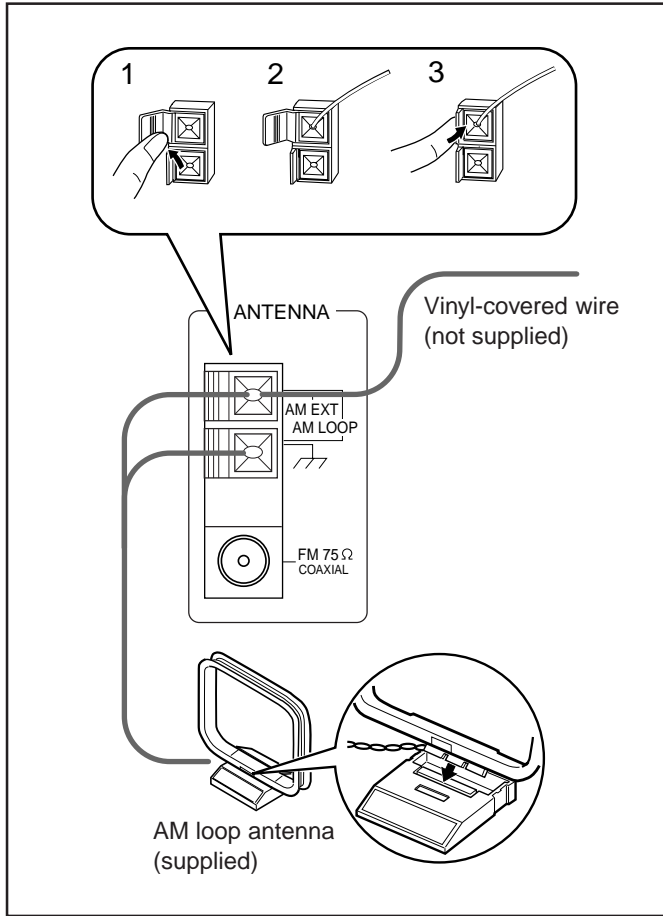📝 **notes** **About the supplied FM antenna**
The FM antenna supplied with this unit can be used as temporary measure. If reception is poor, you can connect an outdoor FM antenna.

To connect an outdoor FM antenna
Before connecting it, disconnect the supplied FM antenna.

Outdoor FM antenna
(not supplied)

A 75 Ω antenna with coaxial type connector should be used.

AM antenna

ANTENNA

Vinyl-covered wire
(not supplied)

AM EXT
AM LOOP

FM 75 Ω
COAXIAL

AM loop antenna
(supplied)

1 **Connect the AM loop antenna to the AM LOOP terminals as illustrated.**

2 **Turn the AM loop antenna until you have the best reception.**
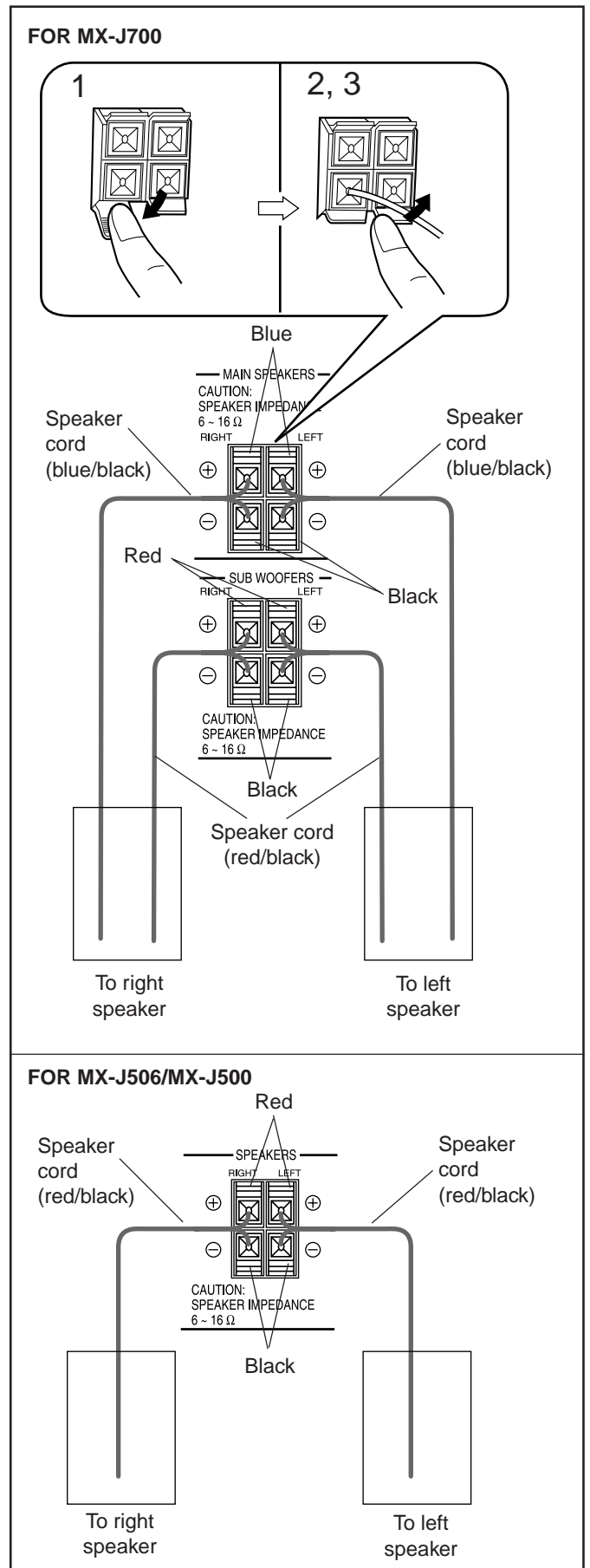
To connect an outdoor AM antenna

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

For better reception of both FM and AM
• Make sure the antenna conductors do not touch any other terminals and connecting cords.
• Keep the antennas away from metallic parts of the unit, connecting cords, and the AC power cord.

Connecting Speakers

FOR MX-J700

Blue

MAIN SPEAKERS
CAUTION:
SPEAKER IMPEDANCE
6 ~ 16 Ω
RIGHT   LEFT

Speaker
cord
(blue/black)

Speaker
cord
(blue/black)

Red

Black

SUB WOOFERS
RIGHT   LEFT

Black

Speaker cord
(red/black)

CAUTION:
SPEAKER IMPEDANCE
6 ~ 16 Ω

To right
speaker

To left
speaker

FOR MX-J506/MX-J500

Red

Speaker
cord
(red/black)

SPEAKERS
RIGHT   LEFT

Speaker
cord
(red/black)

CAUTION:
SPEAKER IMPEDANCE
6 ~ 16 Ω

Black

To right
speaker

To left
speaker

– 7 –

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

2 **Insert the end of the speaker cord into the terminal.**
- For MX-J700: Match the polarity (colors) of the speaker terminals: Blue (+) to blue (+) and black (–) to black (–); Red (+) to red (+) and black (–) to black (–).
- For MX-J500: Match the polarity (colors) of the speaker terminals: Red (+) to red (+) and black (–) to black (–).

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

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

Connecting Other Equipment

You can connect both analog and digital equipment.

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

To connect an analog component

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

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

To connect audio equipment with an optical digital input terminal

You can record CD sound onto the connected digital equipment.

Connect an optical digital cord (not supplied) between the optical digital input terminal on the other equipment and the CD OPTICAL DIGITAL OUTPUT terminal.

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

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

To stop the display demonstration, press any button on the unit or on the remote control.

**To start the display demonstration manually
Press and hold DEMO for more than 2 seconds.**

To stop the demonstration, press any button.

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Common Operations

Turning On or Off the Power

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

WELCOME

The Powered Rolling Panel opens automatically.

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

GOOD BYE

The Powered Rolling Panel also closes.
A little power is always consumed even while the unit is on standby.

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

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

The clock is reset to "AM 12:00" right away, while the tuner preset stations (see page 12) will be erased in a few days.

Setting the Clock

Before operating the unit any further, first set the clock built in this unit.

On the unit ONLY:

1 Press PANEL OPEN/CLOSE.
   The unit is turned on and the Powered Rolling Panel opens automatically.

2 Press CLOCK/TIMER.

AM 12:00

The hour digits start flashing on the display.

3 Press ◄◄ or ►►► to adjust the hour, then press SET.

PM 5:00

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

4 Press ◄◄ or ►►► to adjust the minute, then press SET.

CLOCK OK

To check the clock time

Press DISPLAY while playing any source.
• Each time you press the button, the source indication and the clock time alternate on the display.

To adjust the clock again

If you have adjusted the clock before, you need to press CLOCK/TIMER repeatedly until the clock setting mode is selected.
• Each time you press the button, the clock/timer setting modes change as follows:

```
   ┌─► DAILY ──► ON TIME ──► REC ─┐
   │                              │
   └─ Canceled ◄─ Clock ◄──ON TIME◄─┘
                 setting
```
(The hour digits start flashing.)

notes **If there is a power failure**

The clock loses the setting and is reset to "AM 12:00." You need to set the clock again.
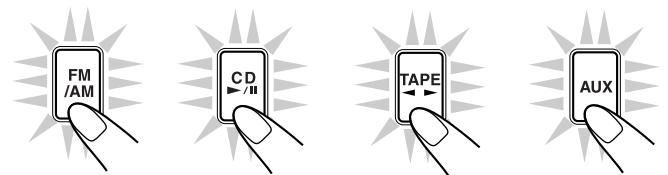
Selecting the Sources

To listen to the FM/AM broadcasts, press FM/AM. (See page 12.)
To play back CDs, press CD ►/ⅠⅠ. (See pages 13 – 15.)
To play back tapes, press TAPE ◄ ►. (See page 16.)
To select the external equipment as the source, press AUX.

When you press the play button for a particular source (FM/AM, CD ►/ⅠⅠ, AUX, and TAPE ◄ ►), the unit turns on, and the Powered Rolling Panel opens automatically (and the unit starts playing the source if it is ready — COMPU PLAY CONTROL).
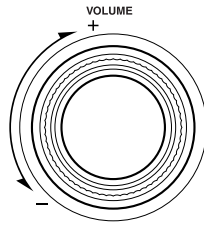
Adjusting the Volume

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

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

VOLUME
+
–

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

$$VOL \quad 15$$

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

notes

For private listening
Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers. Be sure to turn down the volume before connecting or putting on headphones.

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

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

FADE
MUTING

Reinforcing the Bass Sound

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

For MX-J700
The SUBWOOFER VOLUME control provided for this unit can enhance the subwoofer sound if subwoofers are connected to the rear of this unit (see page 7).

Turn the SUBWOOFER VOLUME control clockwise to increase the subwoofer sound or counterclockwise to decrease it.

SUBWOOFER
VOLUME
–
+

- The subwoofer level can be adjusted in 6 steps (WOOFER 1 — WOOFER 5, and MAX).

$$WOOFER \quad 3$$

SUB WOOFER

SUBWOOFER indicator always lights up when the unit is on.

When using the remote control, press SUBWOOFER + to increase the subwoofer volume or press SUBWOOFER – to decrease it.
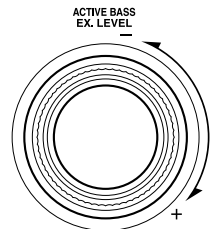
For MX-J506/MX-J500
The ACTIVE BASS EX. (extension) LEVEL control provided for this unit can maintain the richness and fullness of the bass sound while listening to any source at low volume.

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

ACTIVE BASS
EX. LEVEL
–
+

- The bass sound level can be adjusted in 4 steps (BASS 1 — BASS 3, and MAX).

BASS

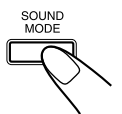$$BASS \quad 3$$

BASS indicator always lights up when the unit is on.

When using the remote control, press ACTIVE BASS EX. + to increase the bass sound level or press ACTIVE BASS EX. – to decrease it.

To cancel the Active Bass Extension, turn the control counterclockwise until "BASS OFF" appears.
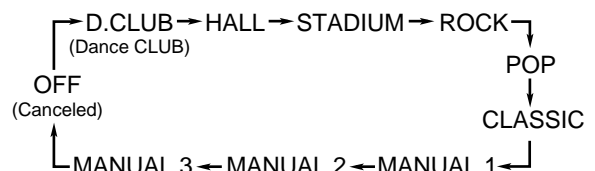
Selecting the Sound Modes

You can select one of the 6 preset sound modes (3 surround modes and 3 SEA — Sound Effect Amplifier — modes). This function only affects the playback sound, but does not affect your recording.
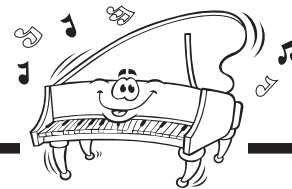
To select the sound modes, press SOUND MODE until the sound mode you want appears on the display. The SOUND MODE indicator also lights up on the display.

SOUND
MODE

$$D.CLUB$$

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

D.CLUB → HALL → STADIUM → ROCK
(Dance CLUB)

OFF
(Canceled)

POP
↓
CLASSIC

MANUAL 3 ← MANUAL 2 ← MANUAL 1

– 10 –

Surround modes *:

D.CLUB: Increases resonance and bass.

HALL: Adds depth and brilliance to the sound.

STADIUM: Adds clarity and spreads the sound, like in an outdoor stadium.

SEA (Sound Effect Amplifier) modes:

ROCK: Boosts low and high frequency. Good for acoustic music.

POP: Good for vocal music.

CLASSIC: Good for classical music.

Manual modes:

MANUAL 1/2/3:
Your individual mode stored in memory. See "Creating Your Own Sound Mode — Manual Mode."

OFF: Cancels the sound mode.

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

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

Creating Your Own Sound Mode — Manual Mode

You can change SEA pattern to suit your preference. These changed settings can be stored in the MANUAL 1, 2, and 3 modes.

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- **If you want to add the surround elements in your SEA pattern,** select one of the surround modes (D.CLUB, HALL, or STADIUM) before starting the procedure below.

On the unit ONLY:

1 **Press and hold SEA CONTROL until "SEA CONT" appears on the display.**
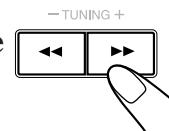
SEA CONTROL

```
SEA CONT
```

⬇

```
www.DataSheet4U.com
LOW ±0
```

Current level appears.

2 **Adjust the SEA pattern.**

−PRESET +

1) **Press |◄◄ or ►►| to select the frequency range to adjust (LOW, MID, HIGH).**

−TUNING +

2) **Press ◄◄ or ►► to adjust the level (–3 to +3) of the selected frequency range.**

3) **Repeat steps 1) and 2) to adjust the level of the other frequency ranges.**

3 **Press SEA CONTROL again.**

SEA CONTROL

```
MANUAL  1
```

4 **Press |◄◄ or ►►| to select one of the MANUAL 1, 2, and 3 modes into which you want to store the SEA pattern.**

5 **Press SEA CONTROL again.**

SEA CONTROL

```
MEMORY
```

The SOUND MODE indicator also lights up.
The SEA pattern you have created are stored into the MANUAL mode selected in the above step.

To use your own sound mode

Select MANUAL 1, 2, or 3 mode when using the sound modes. See "Selecting the Sound Modes."

– 11 –

Listening to FM and AM Broadcasts
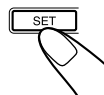
Tuning in a Station

1 Press FM/AM.
The unit automatically turns on and tunes in the previously tuned station (either FM or AM). The Powered Rolling Panel automatically opens.
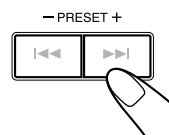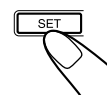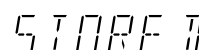- Each time you press the button, the band alternates between FM and AM.

2 Start searching for stations.
On the unit:
Press and hold TUNING – / + for more than 1 second.
On the remote control:
Press and hold ◄◄ / I◄◄ or ►►I / ►► for more than 1 second.
The unit starts searching for stations and stops when a station of sufficient signal strength is tuned in. If a program is broadcast in stereo, the STEREO indicator lights up.

To stop during searching, press TUNING – / + (or ◄◄ / I◄◄, ►►I / ►►).

notes **When you press TUNING – / + (or ◄◄ / I◄◄, ►►I / ►►) briefly and repeatedly**
The frequency changes step by step.

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

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

Presetting Stations

You can preset 30 FM and 15 AM stations.
In some cases, test frequencies have been already memorized for the tuner since the factory examined the tuner preset function before shipment. This is not a malfunction. You can preset the stations you want into memory by following the presetting method.
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the unit ONLY:
1 Tune in the station you want to preset.
- See "Tuning in a Station" above.

FM 87.5 MHz

2 Press SET.
SET

3 Press PRESET – / + to select a preset number.
P- 1

4 Press SET again.
STORE 1

The tuned station in step 1 is stored in the preset number selected in step 3.
- Storing a new station on a used number erases the previously stored one.

notes **When you unplug the AC power cord or if a power failure occurs**
The preset stations will be erased in a few days. If this happens, preset the stations again.
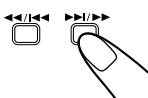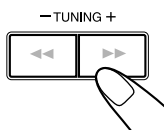
Tuning in a Preset Station

1 Press FM/AM.
The unit automatically turns on and tunes in the previously tuned station (either FM or AM). The Powered Rolling Panel automatically opens.
- Each time you press the button, the band alternates between FM and AM.

2 Select a preset number.
On the unit:
Press PRESET – / +.
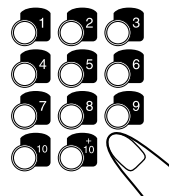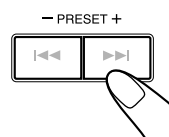**On the remote control:**
Press the number buttons.
For preset number 5, press 5.
For preset number 15, press +10 then 5.
For preset number 20, press +10, then 10.
For preset number 25, press +10, +10, then 5.
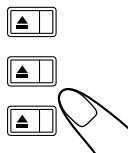For preset number 30, press +10, +10, then 10.
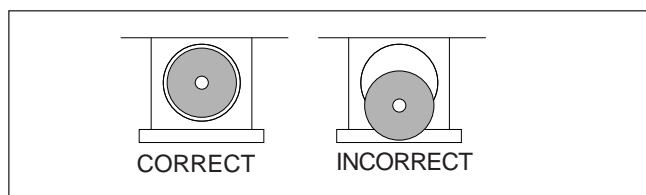
Playing Back CDs

Loading CDs

On the unit ONLY:

1 Press ▲ for the disc tray (CD1 to 3) you want to load a CD onto.
The unit automatically turns on and the disc tray comes out. The Powered Rolling Panel also opens automatically.
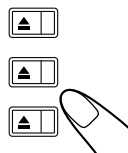
2 Place a disc correctly on the circle of the disc tray, with its label side up.

CORRECT   INCORRECT

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

3 Press the same ▲ you have pressed in step 1.
The disc tray closes, and the corresponding disc indicator (CD1 to CD3) lights up on the display.

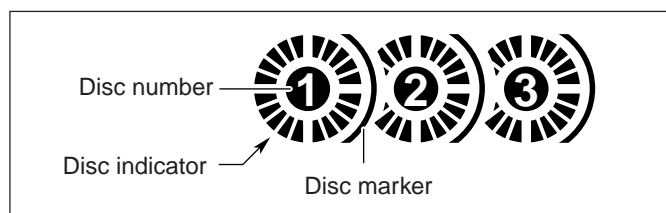**4 Repeat steps 1 to 3 to place other CDs.**

notes **When loading more than one CD continuously**
When you press ▲ for the next tray you want to place another CD onto, the first disc tray automatically closes and then the next tray comes out.

notes **About the disc indicators**
Each disc indicator corresponds to the disc tray of the same number.

Disc number
Disc indicator
Disc marker

• The disc marker lights up for the disc number you have selected.
• The disc indicator flashes while the corresponding CD is being played.
• The disc indicator goes off when the unit has detected that there is no CD on the corresponding disc tray.
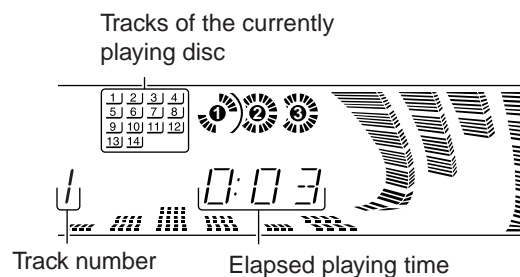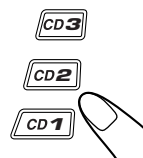
Playing Back the Entire Discs — Continuous Play

You can play CDs continuously.

1 Load CDs.

2 Press one of the disc number buttons (CD1, CD2, and CD3) for the disc you want to play.
CD play starts from the first track of the selected disc.

Tracks of the currently playing disc

Track number   Elapsed playing time

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

To stop during play, press ■.

To remove the disc, press ▲ for the corresponding disc tray.

notes **CD playback sequence**
When 3 CDs are loaded on the disc trays, they are played in one of the following sequences.
• When CD1 is pressed : CD1 ⇨ CD2 ⇨ CD3 (then stops)
• When CD2 is pressed : CD2 ⇨ CD3 ⇨ CD1 (then stops)
• When CD3 is pressed : CD3 ⇨ CD1 ⇨ CD2 (then stops)
* When only 2 CDs are loaded, they are played in the same order, but the disc tray without a CD is skipped.

Basic CD Operations

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

To exchange CDs during playback of another
Press ▲ corresponding to a CD, not playing or selected currently, to eject and exchange the CD.
If you exchange CDs during play, the current play will not stop until all CDs you have exchanged are played.

To stop play for a moment
Press CD ►/II.
While pausing, the elapsed playing time flashes on the display.
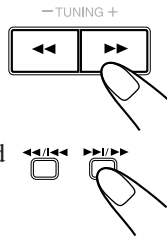
To resume play, press CD ►/II again.

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To locate a particular point in a track

During play, press and hold ◄◄ or ►►.

— TUNING +

◄◄ ►►

- ◄◄: Fast reverses the disc.
- ►►: Fast forwards the disc.

When using the remote control, press and hold ◄◄ / I◄◄ or ►►I / ►►.

◄◄/I◄◄ ►►I/►►

To go to another track

Press I◄◄ or ►►I repeatedly before or during playback.

— PRESET +

I◄◄ ►►I

- I◄◄: Goes back to the beginning of the current or previous tracks.
- ►►I: Skips to the beginning of the next or succeeding tracks.
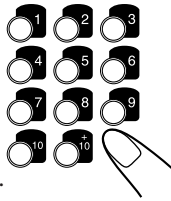
When using the remote control, press ◄◄ / I◄◄ or ►►I / ►►.

◄◄/I◄◄ ►►I/►►

notes **If you press and hold I◄◄ / ►►I (or ◄◄ / I◄◄ or ►►I / ►► before playing)**
You can change the tracks continuously.

To go to another track directly using the number buttons

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

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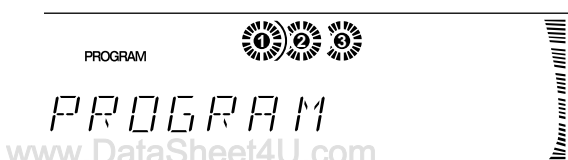For track number 32, press +10, +10, +10, then 2.

Programming the Playing Order of the Tracks — Program Play

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

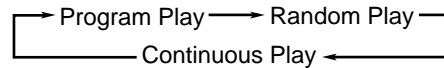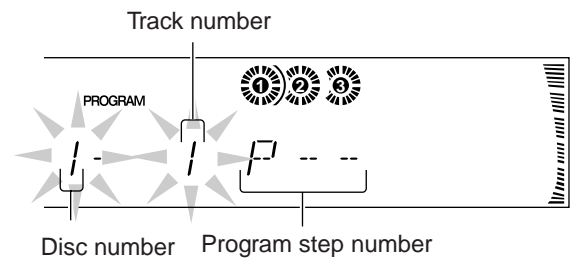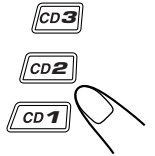- To use Repeat play (see page 15) for Program play, press REPEAT after starting Program play.

1 Load CDs.

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

2 Press PROGRAM/RANDOM repeatedly until "PROGRAM" appears on the display.
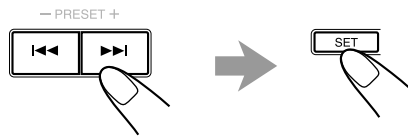
PROGRAM / RANDOM

PROGRAM ①②③

PROGRAM

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

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

➝ Program Play ➝ Random Play ➝
Continuous Play ◄

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

CD3
CD2
CD1

Track number

PROGRAM ①②③

I - I P -- --

Disc number   Program step number

4 Select a track from the CD selected in the above step.
On the unit:
Press I◄◄ or ►►I to select the track number, then press SET.

— PRESET +

I◄◄ ►►I   ➡   SET

On the remote control:
Press the number buttons.

- For how to use the number buttons, see "To go to another track directly using the number buttons" described to the left.

PROGRAM 13J ①②③

2 -- 13 P 1

5 Program other tracks you want.

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

6 Press CD ►/II.

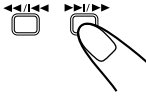The tracks are played in the order you have programed.

To stop during play, press ■.

To exit from Program play mode, press PROGRAM/ RANDOM repeatedly again before or after play so that the unit enters another play mode. (The program you have made is stored in memory until you turn off the unit or erase the program.)

To check the program contents

Before playing, you can check the program contents by pressing ◄◄ / I◄◄ or ►►I / ►► on the remote control.

- ►►I / ►►: Shows the programed tracks in the programed order.
- ◄◄ / I◄◄: Shows them in the reverse order.

To modify the program

Before playing, you can erase the programed tracks shown on the display by pressing CANCEL.

- Each time you press the button, the programed track shown on the display is erased from the program.

To add tracks in the program before play, simply select the track numbers you want to add by following step 4 of the programming procedure on page 14.

To erase the entire program before or after play, press ■. "PROGRAM" appears on the display.

- Ejecting a CD will also erase the track numbers programed from the ejected CD.

notes **If you try to program a 33rd track**
"FULL" will appear on the display.

notes **If your entry is ignored**
You have tried to program a track from an empty tray, or a track number that does not exist on the CD (for example, selecting track 14 on a CD that only has 12 tracks). Such entries are ignored.

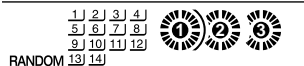## Playing at Random — Random Play

The tracks of all loaded CDs will play at random.
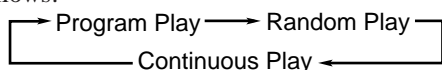- To use Repeat play for Random play, press REPEAT after starting Random play.

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

2 Press PROGRAM/RANDOM repeatedly until "RANDOM" appears on the display.

RANDOM

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

```
┌─→ Program Play ──→ Random Play ─┐
└──────── Continuous Play ◄───────┘
```

3 Press CD ►/II.
The tracks are played at random.
Random play ends when all the tracks are played once.

To skip the currently playing track, press ►►I (or ►►I / ►► on the remote control).

To stop during play, press ■.
- Random play also stops when one of the disc trays is opened.

To exit from Random play mode, press PROGRAM/ RANDOM repeatedly again before or after play so that the unit enters another play mode.
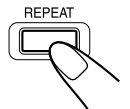
notes **Even if you press I◄◄ (or ◄◄ / I◄◄ on the remote control)**
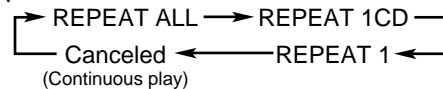You cannot go back to the previous tracks during Random play.

Repeating Tracks or CDs — Repeat Play

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

To repeat play, press REPEAT during or before playing. To use Repeat play for Program play and Random play, press the button after starting playback.

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

```
┌─→ REPEAT ALL ──→ REPEAT 1CD ─┐
└─ Canceled ◄──── REPEAT 1 ◄───┘
  (Continuous play)
```

REPEAT ALL: Repeats all the tracks on all the CDs (continuously or at random), or all the tracks in the program.
REPEAT 1CD*: Repeats all the tracks on one CD.
REPEAT 1: Repeats one track on one CD.
* REPEAT 1CD is not used for Program play and Random play.

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

- Repeat play is also canceled when you select Program play or Random play.

Prohibiting Disc Ejection — Tray Lock

You can prohibit CD ejection from the unit and can lock CDs.
- This operation is possible only using the buttons on the unit.

To prohibit disc ejection, press ▲ for any disc tray while holding ■. (If there is any disc tray opened, close it first.) "LOCKED" appears for a while, and the loaded CDs are locked.

To cancel the prohibition and unlock the CDs, press ▲ for any disc tray while holding ■.
"UNLOCKED" appears for a while, and the loaded CDs are unlocked.

notes **If you try to eject CDs**
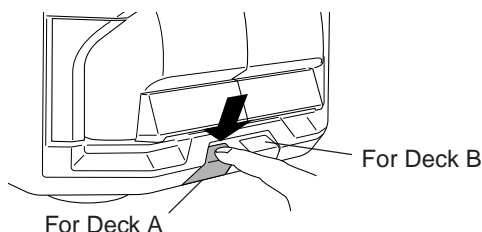"LOCKED" appears to inform you that the Tray Lock is in use.
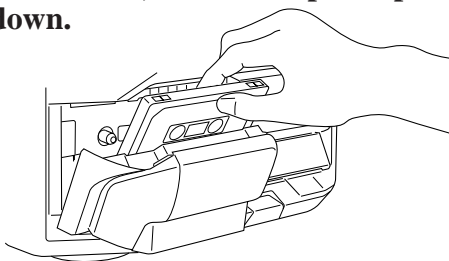
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Playing Back Tapes

You can play back type I, type II, and type IV tapes without changing any settings.

Playing Back a Tape

1 Press EJECT (⏏) for the deck you want to use.

For Deck B

For Deck A

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

3 Close the cassette holder gently.
If you put cassettes in both decks A and B, the last deck you have put a cassette into is selected.
To operate the other deck, press TAPE A/B.

4 Press TAPE ◄ ►.
The tape play starts and the tape direction indicator (◄ ►) starts flashing slowly to indicate the tape running direction.
• Each time you press the button, the tape direction changes.

> ► : plays the front side.
> ◄ : plays the reverse side.

When the tape plays to the end, the deck automatically stops if the Reverse Mode is not on. (See "To play both sides repeatedly — Reverse Mode.")

To stop during play, press ■.

To operate the other deck, press TAPE A/B, then TAPE ◄ ►.

To fast wind to the left or to the right, press ◄◄ / ►► (◄◄ / I◄◄ or ►►I / ►► on the remote control) while the tape is not running.
The tape direction indicator (◄ ►) starts flashing quickly on the display.
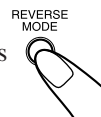
To remove the cassette, press ⏏ EJECT for deck A or EJECT ⏏ for deck B.

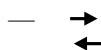## To play both sides repeatedly — Reverse Mode

Reverse Mode works for both decks at the same time. When it is in use, the tape automatically reverses at the end of a side and the unit starts playing the other side of the tape, and repeats the same process.

To use Reverse Mode, press REVERSE MODE so that the Reverse Mode indicator on the display lights up like — (⟳)

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

> **notes** **When Reverse Mode is on with cassettes in both decks A and B**
> After the reverse (◄) side of the tape finishes playing, the tape in the other deck starts playing.
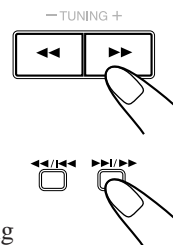
Locating the Beginning of a Song — Music Scan

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

To find the beginning of the current song
During play, press ◄◄ / ►► (◄◄ / I◄◄ or ►►I / ►► on the remote control) in **the opposite direction** to the tape play.
The tape direction indicator of the opposite direction to the tape play starts flashing slowly.

— TUNING +

Searching stops automatically at the beginning of the current song, and the current song starts automatically.

To find the beginning of the next song
During play, press ◄◄ / ►► (◄◄ / I◄◄ or ►►I / ►► on the remote control) in **the same direction** as the tape play.
The tape direction indicator of the same direction as the tape play starts flashing slowly and quickly alternately.

Searching stops automatically at the beginning of the next song, and the next song starts automatically.

> **notes** **Music Scan works by detecting a 4-second long blank between each song, so it will not work well in the following cases**
• No blank at the beginning of a song.
• Noise (often caused by much use or poor quality dubbing) which fills the blank.
• Long, very soft passages or pauses in a song.

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

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Recording

IMPORTANT:

- **It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic embodied therein.**
- The recording level is automatically set correctly, so it is not affected by the VOLUME control (and the SUBWOOFER VOLUME control for MX-J700; ACTIVE BASS EX. LEVEL control for MX-J500). Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
- While recording, you can hear sound modes through the speakers or headphones. However, the sound is recorded without these effects (see page 10).
- 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.
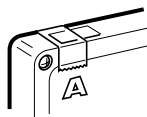- You can use type I and II tapes for recording.

To protect your recording

Cassettes have two small tabs on the back to protect unexpected erasure or re-recording.
To protect your recording, remove these tabs.
To re-record on a protected tape, cover the holes with adhesive tape.
When using type II tape, be careful not to cover the holes used to detect the tape type.
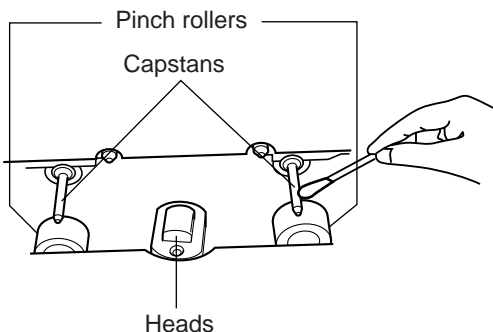
To keep the best recording and playback sound quality

If the heads, capstans, and pinch rollers of the cassette decks become dirty, the following will occur:
- Impaired sound quality
- Discontinuous sound
- Fading
- Incomplete erasure
- Difficulty in recording

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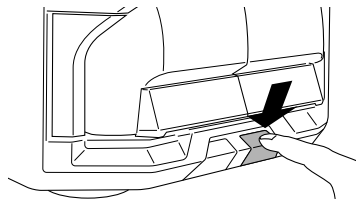Use a cotton swab moistened with alcohol.

Pinch rollers

Capstans

Heads

www.DataSheet4U.com

To demagnetize the heads
Turn off the unit, and use a head demagnetizer (available at electronics and record shops).

Recording a Tape on Deck B

1 Press EJECT ⏏ for the deck B.

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

3 Close the cassette holder gently.

4 Check the tape direction of deck B.
- If the tape direction is not correct, press TAPE ◄ ► twice then ■ to change the tape direction.

5 Start playing the source — FM, AM*, CD player, deck A, or auxiliary equipment connected to AUX jacks.
- When the source is CD, you can also use CD Direct Recording (see page 18) and Auto Edit Recording (see page 19).
- When the source is deck A, you can also use the dubbing method. (See "Dubbing Tapes" on page 18.)

* See "To record an AM station — Beat Cut" on page 18.
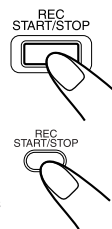
6 Start recording.
<u>On the unit:</u>
Press REC START/STOP.
<u>On the remote control:</u>
Press and hold REC START/STOP for more than 1 second.
The REC (recording) indicator lights up on the display and recording starts.

REC START/STOP

REC START/STOP

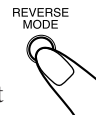**To stop during recording,** press REC START/STOP again or ■.

To remove the cassette, press EJECT ⏏ for deck B.

To record on both sides — Reverse Mode

Press REVERSE MODE so that the Reverse Mode indicator lights up as — (⇄)

REVERSE MODE

- When using the Reverse Mode for recording, start recording in the forward (►) direction first.
  Otherwise, recording will stop when recording is done only on one side (reverse) of the tape.

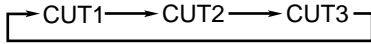**To cancel Reverse Mode,** press the button again so that the Reverse Mode indicator lights up as — ⇄

To record an AM station — Beat Cut

While recording an AM broadcast, beats may be heard (which are never heard when listening to the broadcast without recording it).

If this occurs, press PROGRAM/RANDOM repeatedly, while recording, until the beats are reduced.
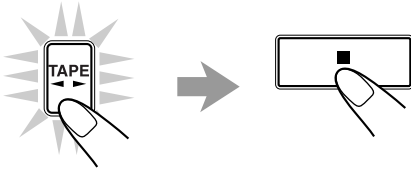
PROGRAM /RANDOM

- Each time you press the button, the display changes to show the following:

```
 ┌─→ CUT1 ──→ CUT2 ──→ CUT3 ─┐
 └───────────────────────────┘
```

Dubbing Tapes

It is preferable that the tape type (type I or II) you record from be the same as the tape type you record onto when dubbing tapes.
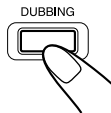
1 Press TAPE ◄ ►, then ■.

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

- Put the cassettes in both decks so that the tapes will run in the forward (►) direction.
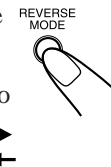
3 Press DUBBING.

Dubbing starts.

DUBBING

To stop during dubbing, press ■.

To record on both sides — Reverse Mode

Press REVERSE MODE so that the Reverse Mode indicator lights up as — (⇄)

REVERSE MODE

To cancel Reverse Mode, press the button again so that the Reverse Mode indicator lights up as — →
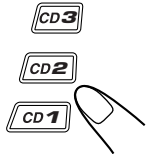←

CD Direct Recording

Everything on the CD goes onto the tape in the order it is on the CD, or according to the order you have made for Program play.

1 Put a recordable cassette into deck B.

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

CD3

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

CD2

CD1

4 Press CD REC START.

CD REC START

"CD REC" appears, and the REC (recording) indicator lights up on the display.
Deck B starts recording and the CD player starts playing.
When the recording is done, "CD REC FINISHED" appears on the display, and the CD player and deck B stop.

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

To record on both sides — Reverse Mode

Press REVERSE MODE so that the Reverse Mode indicator lights up as — (⇄)

REVERSE MODE

- When using the Reverse Mode for CD Direct Recording, start recording in the forward (►) direction first. When the tape reaches its end while recording a song in the forward direction (►), the last song will be recorded at the beginning of the reverse side (◄).

  If you start recording on the reverse side (◄), recording will stop when recording is done only on one side (reverse) of the tape.

To cancel Reverse Mode, press the button again so that the Reverse Mode indicator lights up as — →
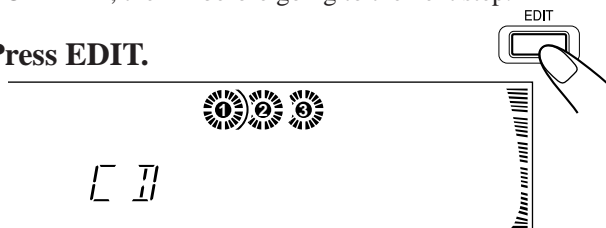←

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Auto Edit Recording

By using Auto Edit Recording, you can record the CD tracks to fit the tape. Auto Edit Recording makes a program by selecting the CD tracks in numerical order. However, to prevent the end of the last track on the front side from being cut off, the last track is selected so as to fit on the remaining tape length.
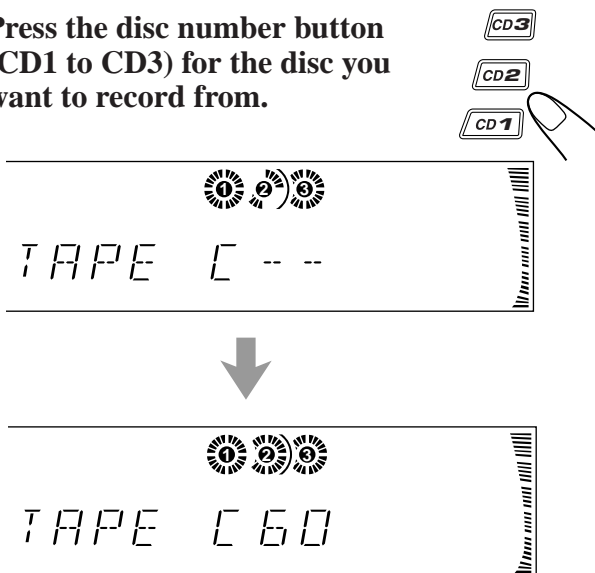
On the unit ONLY:

1 Load CDs.
  • If the current playing source is not the CD player, press CD ►/❚❚, then ■ before going to the next step.

2 Press EDIT.

3 Press the disc number button (CD1 to CD3) for the disc you want to record from.
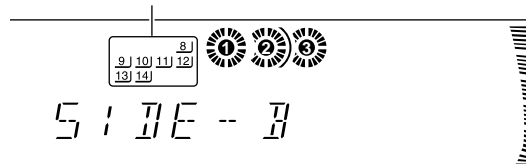

The optimum tape length for the disc appears.

To change the tape length manually
If the tape length selected is not satisfactory, you can change the tape length by pressing |◄◄ or ►►|.
You can select the tape length among the following — 40, 46, 50, 54, 60, 64, 70, 74, 80, 84, and 90.

4 Press SET.

Tracks to be recorded on the reverse side (SIDE-B) appear.

  • Each time you press the button, the tracks to be recorded on the front side (SIDE-A) and on the reverse side (SIDE-B) alternate.

5 Put a recordable cassette of appropriate length into deck B.

6 Press REVERSE MODE so that the Reverse Mode indicator lights up as (↰↲).
  • Without turning on the Reverse Mode (↰↲), recording will stop when the front side of the tape is recorded.

7 Press CD REC START.
The REC (recording) indicator lights up on the display.
Deck B starts recording then, about 10 seconds later, the CD player starts playing.
When the recording is done, "CD REC FINISHED" appears on the display, and the CD player and deck B stop.
  • If a tape has not been rewound, deck B will rewind the tape before it starts recording.
  • A 10-second blank portion is automatically created at the beginning of each side of the tape.

To stop during Auto Edit Recording
Press ■ or REC START/STOP so that a 4-second blank portion is created on the recorded tape. (Remember a 4-second blank is important when using Music Scan — see page 16.)

To cancel Auto Edit Recording
Press CANCEL before or after play.
  • Pressing one of the following buttons will also cancel Auto Edit Recording — ■, REC START/STOP, and PROGRAM/RANDOM.

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Using the Timers

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

Before using the timers, you need to set the clock built in the unit. (See page 9.)

Using Daily Timer

With Daily Timer, you can wake to your favorite music or radio program.

How Daily Timer actually works

The unit automatically turns on, set the volume level to the preset level, and starts playing the specified source when the on-time comes (the ⏰ indicator flashes just before the on-time, and continues flashing while the timer is operating). Then, when the off-time comes ("OFF" flashes just before the off-time), the unit automatically turns off (stands by). The timer setting remains in memory until you change it.

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- If you have made a mistake while setting timer, press CANCEL. (However, this does not always work. If CANCEL does not work, press CLOCK/TIMER repeatedly and start from step 1 again.)
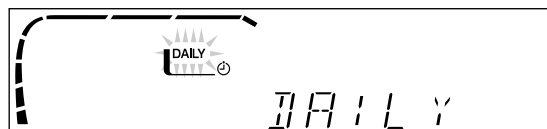
> **Before you start...**
> - *When using a CD as the source to play,* make sure there is a CD on the selected disc number tray.
> - *When using a tape as the source to play —*
>   – Make sure that a tape is in the deck whose deck indicator (A or B) is lit on the display.
>   – Make sure that the tape direction is correct.
> - *When using the external component as the source to play,* set the timer equipped with the external component at the same time.
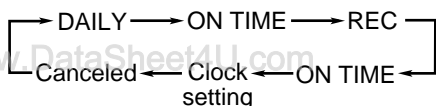
On the unit ONLY:

1 **Press CLOCK/TIMER until "DAILY" appears on the display.**
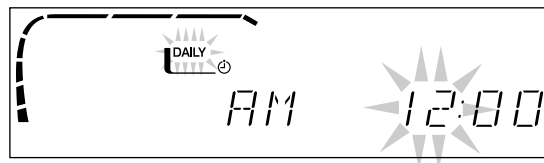The DAILY (Daily Timer) indicator also starts flashing on the display.

DAILY ⏰

DAILY

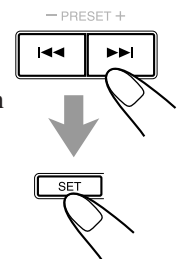- Each time you press the button, the timer setting modes change as follows:

DAILY → ON TIME → REC
↑   ↓
Canceled ← Clock ← ON TIME
        setting
        (See page 9.)

2 **Press CLOCK/TIMER again.**
"ON TIME" appears for 2 seconds, then the unit enters on-time setting mode.
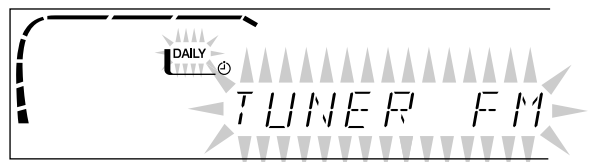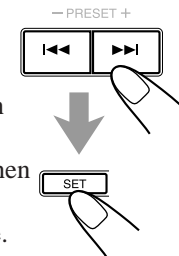
DAILY ⏰

AM 12:00

3 **Set the on-time you want the unit to turn on.**
1) Press ◄◄ or ►► to set the hour, then press SET.
2) Press ◄◄ or ►► to set the minute, then press SET.
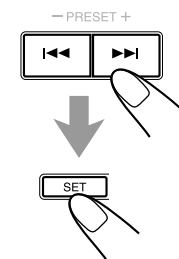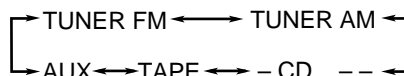"OFF TIME" appears for 2 seconds, then the unit enters off-time setting mode.

— PRESET +

SET

4 **Set the off-time you want the unit to turn off (on standby).**
1) Press ◄◄ or ►► to set the hour, then press SET.
2) Press ◄◄ or ►► to set the minute, then press SET.
The unit enters source selecting mode.

— PRESET +

SET

DAILY ⏰

TUNER FM

5 **Press ◄◄ or ►► to select the source to play, then press SET.**
- Each time you press ◄◄ or ►►, the source changes as follows:

TUNER FM ←→ TUNER AM
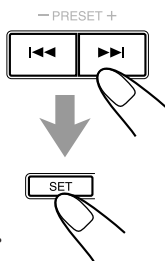↑   ↓
AUX ←→ TAPE ←→ – CD – –

TUNER FM: tunes into a specified preset FM station.
➡ go to step 6.
TUNER AM: tunes into a specified preset AM station.
➡ go to step 6.
– CD – –: plays a disc from a specified track of a specified disc. ➡ go to step 6.
TAPE: plays a tape in deck A or B. ➡ go to step 7.
AUX: plays an external source. ➡ go to step 7.

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6 When selecting "– CD – –"

1) Press |◄◄ or ►►| to select the disc number, then press SET.
2) Press |◄◄ or ►►| to set the track number, then press SET.
The unit enters volume setting mode.
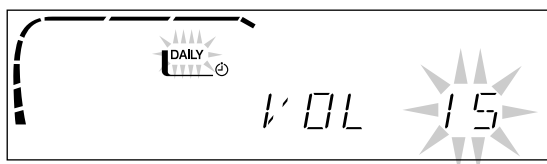
— PRESET +

When selecting "TUNER FM" or "TUNER AM"

Press |◄◄ or ►►| to select the preset station number, then press SET.
The unit enters volume setting mode.

7 Press |◄◄ or ►►| to set the volume level.

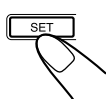— PRESET +

• You can select the volume level from among the following — "VOL – –," "VOL 5," "VOL 10," and "VOL 15."
If you select " VOL – –," the volume is set to the last level when the unit has been turned off.
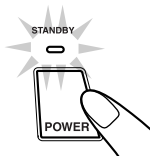
DAILY

VOL 15

8 Press SET to complete the Daily Timer setting.

SET

The DAILY (Daily Timer) indicator stops flashing and remains lit. The settings you have done are shown on the display in sequence.

9 Press POWER to turn off the unit (on standby) if you have set the Daily Timer with the unit turned on.

STANDBY

POWER

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

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

CLOCK /TIMER
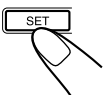
2 To turn off the Daily Timer, press CANCEL.
The DAILY (Daily Timer) indicator goes off from the display ("OFF" appears for a while). The Daily Timer is canceled, but the setting for the Daily Timer remains in memory.

DEMO

CANCEL

To turn on the Daily Timer, press SET.
The DAILY (Daily Timer) indicator lights up on the display. The settings you have done are shown on the display in sequence for your confirmation.

SET

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

Using Recording Timer

With Recording Timer, you can make a tape of a radio broadcast automatically.

How Recording Timer actually works

The unit automatically turns on, tunes into the specified station, sets the volume level to "MIN," and starts recording when the on-time comes (the ⏱ indicator flashes just before the on-time, and continues flashing while the timer is operating). Then, when the off-time comes ("OFF" appears just before the off-time), the unit automatically turns off (stands by).
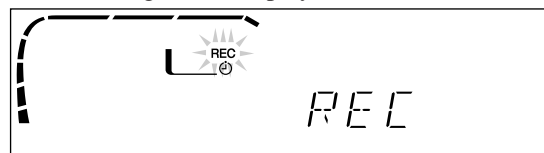The timer setting remains in memory until you change it.
• There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
• If you have made a mistake while setting the timer, press CANCEL. (However, this does not always work. If CANCEL does not work, press CLOCK/TIMER repeatedly and start from step 1 again.)
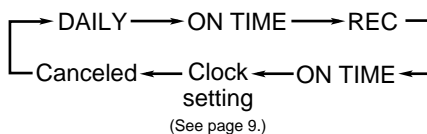
On the unit ONLY:

1 Put a recordable cassette into deck B.

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

CLOCK /TIMER

The REC (Recording Timer) indicator also starts flashing on the display.

REC

REC

• Each time you press the button, the timer setting modes change as follows:

DAILY → ON TIME → REC
Canceled ← Clock setting ← ON TIME ←
(See page 9.)

3 Press CLOCK/TIMER again.

CLOCK /TIMER

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

REC

AM 12:00

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

1) Press |◄◄ or ►►| to set the hour, then press SET.

2) Press |◄◄ or ►►| to set the minute, then press SET.
"OFF TIME" appears for 2 seconds, then the unit enters off-time setting mode.

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

1) Press |◄◄ or ►►| to set the hour, then press SET.

2) Press |◄◄ or ►►| to set the minute, then press SET.
The unit enters preset station selecting mode.
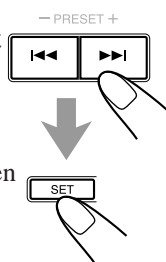
6 Select the preset station.

1) Press |◄◄ or ►►| to select the band ("TUNER FM" or "TUNER AM"), then press SET.

2) Press |◄◄ or ►►| to select a preset channel number, then press SET.
The REC (Recording Timer) indicator stops flashing and remains lit. The settings you have done are shown on the display in sequence.
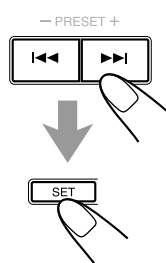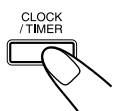
7 Press POWER to turn off the unit (on standby) if necessary.
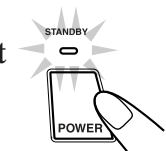
notes **If you want to listen to another source while recording**
Press REC START/STOP to stop recording. Without stopping it, you cannot change the source.

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

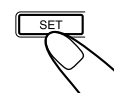1 Press CLOCK/TIMER repeatedly until "REC" appears on the display.

2 To turn off the Recording Timer, press CANCEL.
The REC (Recording Timer) indicator goes off from the display.
The Recording Timer is canceled, but the setting for the Recording Timer remains in memory.

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

Using Sleep Timer

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

How Sleep Timer actually works
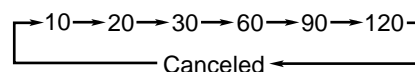The unit automatically turns off after the specified time length passes.

On the remote control ONLY:

1 Press SLEEP.
The time length until the shut-off time appears and the SLEEP indicator starts flashing on the display.
• Each time you press the button, the time length changes as follows:

```
 ┌→10→20→30→60→90→120┐
 └──── Canceled ←────┘
```

2 Wait for about 5 seconds after specifying the time length.
The SLEEP indicator stops flashing and remains lit.

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

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

To cancel the setting, press SLEEP repeatedly so that the SLEEP indicator goes off.
• Sleep Timer is also canceled when you turn off the unit.

Timer Priority

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

• **Recording Timer has priority over Daily Timer and Sleep Timer.**
If Daily Timer is set to come on while Recording Timer is operating, Daily Timer will not come on at all.

	AM 6:00	6:30	7:00	7:30
Recording Timer				
Daily Timer		does not work.		

If Recording Timer is set to come on while Sleep Timer is operating, Sleep Timer will not work (the SLEEP indicator does not go off).

	AM 6:00	6:30	7:00	7:30
Recording Timer				
Sleep Timer		does not work.		

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Maintenance

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

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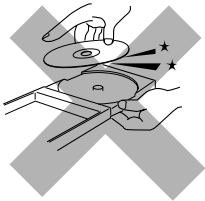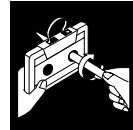Wipe the disc with a soft cloth in a straight line from center to edge.

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

Handling cassette tapes

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

- Be careful not to touch the tape surface.

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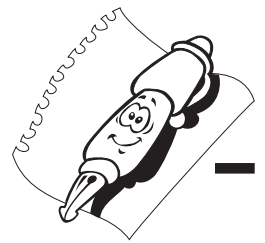 — Near a magnet

Troubleshooting

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

Symptom	Cause	Action
No sound is heard.	Connections are incorrect or loose.	Check all connections and make corrections. (See pages 6 to 8.)
Hard to listen to broadcasts because of noise.	• Antennas are disconnected. • The AM loop antenna is too close to the unit. • The FM antenna is not properly extended and positioned.	• Reconnect the antennas correctly and securely. • Change the position and direction of the AM loop antenna. • Extend the FM antenna at the best position.
The disc sound is discontinuous.	The disc is scratched or dirty.	Clean or replace the disc. (See above.)
The disc tray does not open or close.	• The AC power cord is not plugged in. • Trays are locked.	• Plug the AC power cord. • Unlock the trays. (See page 15.)
The disc does not play.	The disc is placed upside down.	Place the disc with the label side up.
The cassette holders cannot be opened.	Power supply from the AC power cord has been cut off while the tape was running.	Turn on the unit.
Impossible to record.	Small tabs on the back of the cassette are removed.	Cover the holes with adhesive tape.
Operations are disabled.	The built-in microprocessor may malfunction due to external electrical interference.	Unplug the AC power cord and then plug it back in.
Unable to operate the unit from the remote control.	• The path between the remote control and the remote sensor on the unit is blocked. • The batteries are exhausted.	• Remove the obstruction. • Replace the batteries.

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Specifications

English

MX-J700

Amplifier section — CA-MXJ700
Output Power
SUBWOOFERS: 100 W per channel, min. RMS, driven into 6 Ω at 63 Hz with no more than 10% total harmonic distortion.
MAIN SPEAKERS: 50 W per channel, min. RMS, driven into 6 Ω at 1 kHz with no more than 10% total harmonic distortion.

Audio input sensitivity/Impedance
(at 1 kHz, measured at MAIN SPEAKERS)
AUX: 590 mV/50 kΩ

Digital output: CD OPTICAL DIGITAL OUTPUT
Signal wave length: 660 nm
Output level: –15 dBm to –12 dBm

Speakers/Impedance: 6 Ω – 16 Ω

Tuner
FM tuning range: 87.5 MHz – 108.0 MHz
AM tuning range: 530 kHz – 1,710 kHz

CD player
CD Capacity: 3 CDs
Dynamic range: 85 dB
Signal-to-noise ratio: 90 dB
Wow and flutter: Immeasurable

Cassette deck
Frequency response
Normal (type I): 50 Hz — 14,000 Hz
CrO_2 (type II): 50 Hz — 14,000 Hz
Metal (type IV): 50 Hz — 14,000 Hz (only for playback)
Wow and flutter
0.15% (WRMS)

General
Power requirement: AC 120 V $\sim$, 60 Hz
Power consumption: 155 W / 200 VA (at operation)
17 W (on standby)
Dimensions (approx.): 265 mm x 335 mm x 368 mm (W/H/D)
(10 7/16 in. x 13 1/4 in. x 14 1/2 in.)
Mass (approx.): 9.9 kg (21.8 lbs)

Supplied accessories

Speaker section — SP-MXJ700
Type: 4-way bass-reflex type
Twin Hyper Power-Drive Subwoofer
Speaker units: Subwoofer: 16 cm (6 5/16 in.) cone x1
Main Woofer: 16 cm (6 5/16 in.) cone x1
Midrange: 5 cm (2 in.) cone x1
Tweeter: 2 cm (13/16 in.) dome x1
Power handling capacity:
Subwoofer: 100 W
Main speaker: 50 W
Impedance: Subwoofer: 6 Ω
Main speaker: 6 Ω
Frequency range: Subwoofer: 26 Hz — 3,500 Hz
Main speaker: 70 Hz — 29,000 Hz
Sound pressure level: Subwoofer: 75 dB/W•m
Main speaker: 88 dB/W•m
Dimensions (approx.): 286 mm x 335 mm x 365 mm (W/H/D)
(11 5/16 in. x 13 1/4 in. x 14 3/8 in.)
Mass (approx.): 6.3 kg (13.9 lbs) each

MX-J506/MX-J500

Amplifier section — CA-MXJ506/CA-MXJ500
Output Power
120 W per channel, min. RMS, driven into 6 Ω at 1 kHz with no more than 10% total harmonic distortion.

Audio input sensitivity/Impedance (at 1 kHz)
AUX: 580 mV/50 kΩ

Digital output: CD OPTICAL DIGITAL OUTPUT
Signal wave length: 660 nm
Output level: –15 dBm to –12 dBm

Speakers/Impedance: 6 Ω – 16 Ω

Tuner
FM tuning range: 87.5 MHz – 108.0 MHz
AM tuning range: 530 kHz – 1,710 kHz

CD player
CD Capacity: 3 CDs
Dynamic range: 85 dB
Signal-to-noise ratio: 90 dB
Wow and flutter: Immeasurable

Cassette deck
Frequency response
Normal (type I): 50 Hz — 14,000 Hz
CrO_2 (type II): 50 Hz — 14,000 Hz
Metal (type IV): 50 Hz — 14,000 Hz (only for playback)
Wow and flutter
0.15% (WRMS)

General
Power requirement: AC 120 V $\sim$, 60 Hz
Power consumption: 95 W / 125 VA (at operation)
14 W (on standby)
Dimensions (approx.): 265 mm x 335 mm x 368 mm (W/H/D)
(10 7/16 in. x 13 1/4 in. x 14 1/2 in.)
Mass (approx.): 9.7 kg (21.4 lbs)

Supplied accessories

Speaker section — SP-MXJ506/SP-MXJ550
Type: 3-way bass-reflex type
Speaker units: Woofer: 16 cm (6 5/16 in.) cone x1
Midrange: 5 cm (2 in.) cone x1
Tweeter: 2 cm (13/16 in.) dome x1
Power handling capacity: 120 W
Impedance: 6 Ω
Frequency range: 45 Hz — 25,000 Hz
Sound pressure level: 86 dB/W•m
Dimensions (approx.): 235 mm x 335 mm x 270 mm (W/H/D)
(9 5/16 in. x 13 1/4 in. x 10 11/16 in.)
Mass (approx.): 3.7 kg (8.2 lbs) each

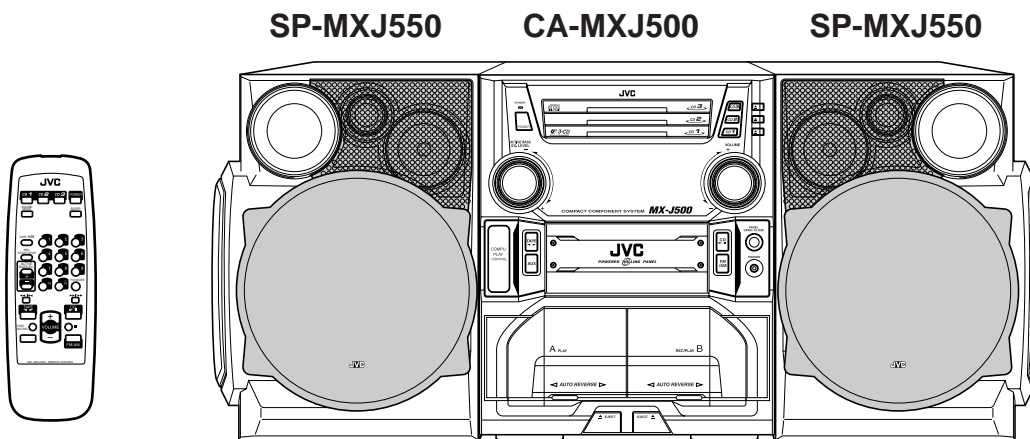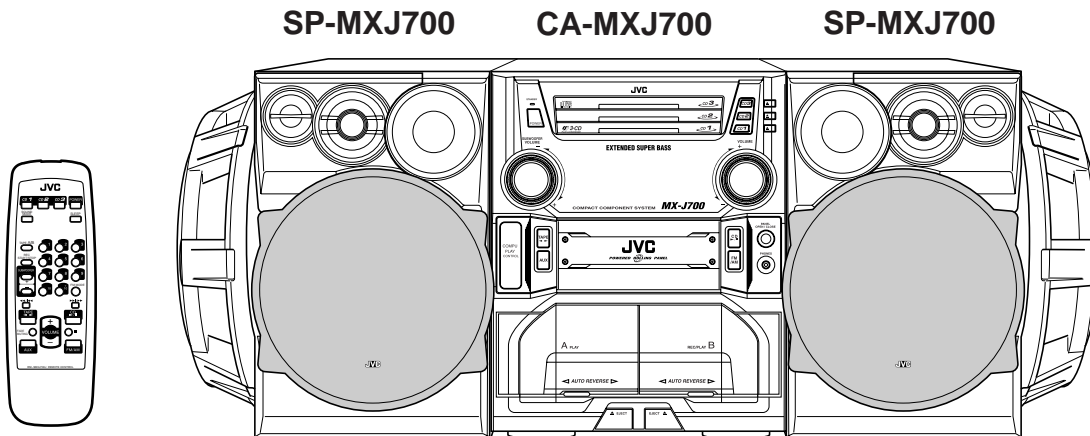# JVC

COMPACT COMPONENT SYSTEM

MX-J700 — Consists of CA-MXJ700 and SP-MXJ700.
MX-J500 — Consists of CA-MXJ500 and SP-MXJ550.

SP-MXJ700 **CA-MXJ700** **SP-MXJ700**

SP-MXJ550 **CA-MXJ500** **SP-MXJ550**

COMPACT
disc
DIGITAL AUDIO

INSTRUCTIONS

GVT0029-001A
[J]

www.DataSheet4U.com
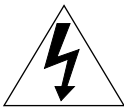
Warnings, Cautions and Others

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For U.S.A.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

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

1. CLASS 1 LASER PRODUCT
2. **DANGER**: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION**: Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.
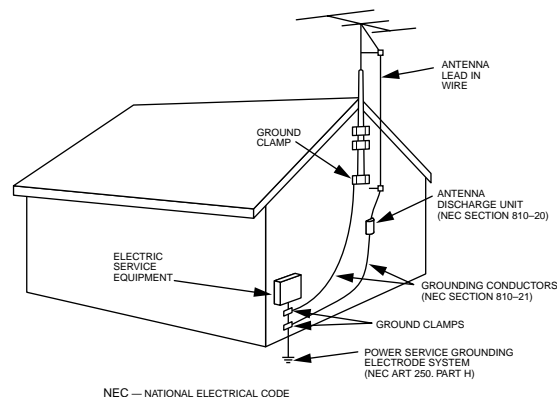
Instructions for safe use
(Statement in accordance with the UL standards)

1) Read Instructions — Read carefully this instructions for your safe use before this appliance is installed, wire-connected, and operated.

2) Retain Instructions — For your future reference, retain this instruction.

3) Follow Instructions — Follow and obey all warnings, cautions and instructions marked on this appliance and this instruction.

4) Water and Moisture — Do not expose this appliance to rain, water and moisture, or operate it near water — for example near a bathtub, wash bowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, and the like.

5) Ventilation and Heat — This appliance should be situated so that its location does not interfere with its proper ventilation. For example, this appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings. This appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

6) Power sources — This appliance should be connected to a power supply only of the type as marked on this appliance.

7) Polarization — The precautions that should be taken so that the polarization means of this appliance is not defeated.

8) Power Cord Protection — Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

9) Cleaning — The appliance should be cleaned only as recommended by the manufacturer.

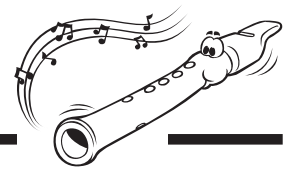10) Power Lines — An outdoor antenna should be located away from power lines.

11) Outdoor Antenna Grounding — If this appliance is provided with means to connect the outdoor antenna and outside antenna is connected to this appliance, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/ NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. Example of antenna grounding is illustrated in here.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE

ANTENNA LEAD IN WIRE

GROUND CLAMP

ANTENNA DISCHARGE UNIT (NEC SECTION 810–20)

ELECTRIC SERVICE EQUIPMENT

GROUNDING CONDUCTORS (NEC SECTION 810–21)

GROUND CLAMPS

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

NEC — NATIONAL ELECTRICAL CODE

12) Nonuse Periods — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

13) Object and Liquid Entry — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

14) Damage Requiring Service — The appliance should be serviced by qualified service personnel when : (a) The power-supply cord or the plug has been damaged; or (b) Objects have fallen, or liquid has been spilled into the appliance; or (c) The appliance has been exposed to rain; or (d) The appliance does not appear to operate normally or exhibits a marked change in performance; or (e) The appliance has been dropped, or the enclosure damaged.

15) Servicing — The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Introduction

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

About This Manual

This manual is organized as follows:

- **The manual mainly explains operations using the buttons and controls on the unit. You can also use the buttons on the remote control if they have the same or similar names (or marks) as those on the unit.**
  If operation using the remote control is different from that using the unit, it is then explained.
- Basic and common information that is the same for many functions is grouped in one place, and is not repeated in each procedure. For instance, we do not repeat the information about turning on/off the unit, setting the volume, changing the sound effects, and others, which are explained in the section "Common Operations" on pages 9 to 11.
- The following marks are used in this manual:

  STOP! Gives you warnings and cautions to prevent damage or risk of fire/electric shock.
  Also gives you information which is not good for obtaining the best possible performance from the unit.

  notes Gives you information and hints you had better know.

Precautions

Installation

- Install in a place which is level, dry and neither too hot nor too cold — between 5˚C (41˚F) and 35˚C (95˚F).
- Install the unit in a location with adequate ventilation to prevent internal heat built-up in the unit.
- Leave sufficient distance between the unit and the TV.
- Keep the speakers away from the TV to avoid interference with TV.

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

Power sources

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

  STOP! DO NOT handle the AC power cord with wet hands.

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:
- After starting heating in the room
- In a damp room
- If the unit is brought directly from a cold to a warm place

Should this occur, the unit may malfunction. In this case, leave the unit turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.
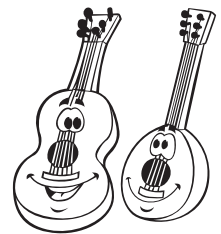
Others

- Should any metallic object or liquid fall into the unit, unplug the unit and consult your dealer before operating any further.
- If you are not going to operate the unit for an extended period of time, unplug the AC power cord from the wall outlet.

  STOP! DO NOT disassemble the unit since there are no user serviceable parts inside.

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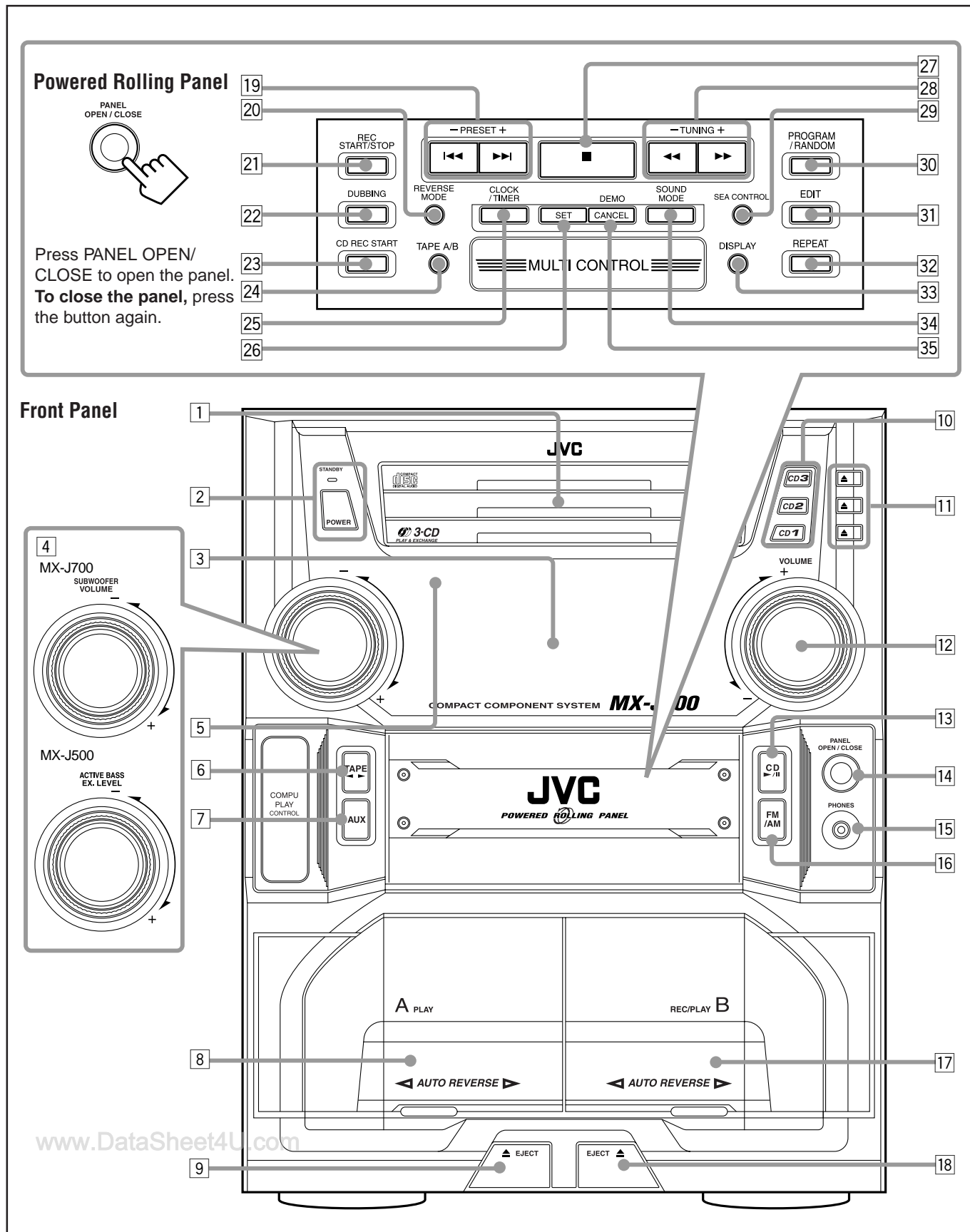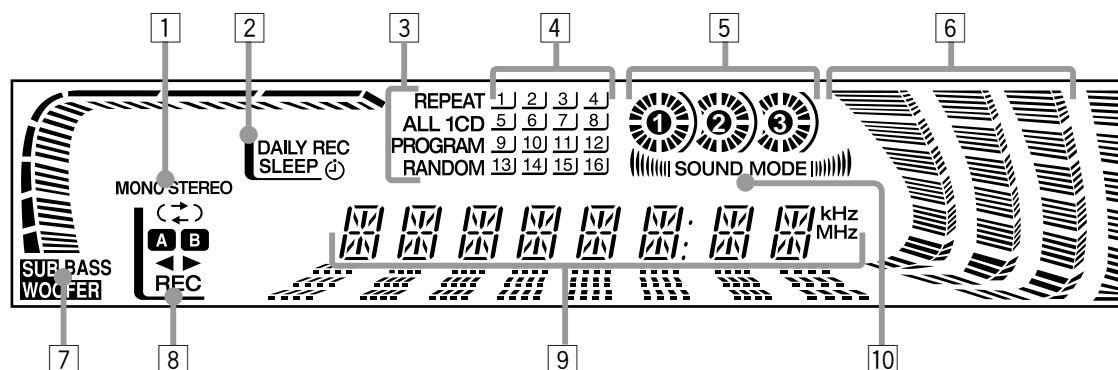
Contents

Location of the Buttons and Controls

Become familiar with the buttons and controls on your unit.

Front Panel

Powered Rolling Panel

PANEL OPEN / CLOSE

Press PANEL OPEN/ CLOSE to open the panel. **To close the panel,** press the button again.

19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35

REC START/STOP
DUBBING
CD REC START
REVERSE MODE
TAPE A/B
CLOCK / TIMER
SET
CANCEL
DEMO
SOUND MODE
SEA CONTROL
EDIT
REPEAT
DISPLAY
PROGRAM / RANDOM

— PRESET +
— TUNING +

MULTI CONTROL

Front Panel

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

STANDBY
POWER

JVC
COMPACT DIGITAL AUDIO
3-CD PLAY & EXCHANGE

MX-J700
SUBWOOFER VOLUME

MX-J500
ACTIVE BASS EX. LEVEL

COMPU PLAY CONTROL

TAPE
AUX

CD3
CD2
CD1

VOLUME
+
—

COMPACT COMPONENT SYSTEM MX-J700

JVC
POWERED ROLLING PANEL

CD ►/II
FM /AM

PANEL OPEN / CLOSE
PHONES

A PLAY
◄ AUTO REVERSE ►

REC/PLAY B
◄ AUTO REVERSE ►

▲ EJECT
EJECT ▲

Display Window

See pages in the parentheses for details.

Front Panel

1. Disc trays
2. POWER button and STANDBY lamp (9)
3. Display window
4. For MX-J700: SUBWOOFER VOLUME control (10)
   For MX-J500: ACTIVE BASS EX. (extension) LEVEL control (10)
5. Remote sensor
6. TAPE ◄ ► button and lamp (9, 16)
   Pressing this button also turns on the unit.
7. AUX button and lamp (9)
   Pressing this button also turns on the unit.
8. Deck A cassette holder (16)
9. ▲ EJECT button for deck A (16)
10. Disc number buttons (CD1, CD2, and CD3) (13)
    Pressing one of these buttons also turns on the unit.
11. ▲ (CD tray open/close) buttons (13)
    Pressing one of these buttons also turns on the unit.
12. VOLUME control (10)
13. CD ►/II (play/pause) button and lamp (9, 13)
    Pressing this button also turns on the unit.
14. PANEL OPEN/CLOSE button (9)
    Pressing this button also turns on the unit.
15. PHONES jack (10)
16. FM/AM button and lamp (9, 12)
    Pressing this button also turns on the unit.
17. Deck B cassette holder (16, 17)
18. EJECT ▲ button for deck B (16, 17)

Powered Rolling Panel

19. PRESET – / + buttons (12)
    I◄◄ / ►►I (reverse search/forward search) buttons (9, 11, 14, 19 – 22)
20. REVERSE MODE button (16 – 19)
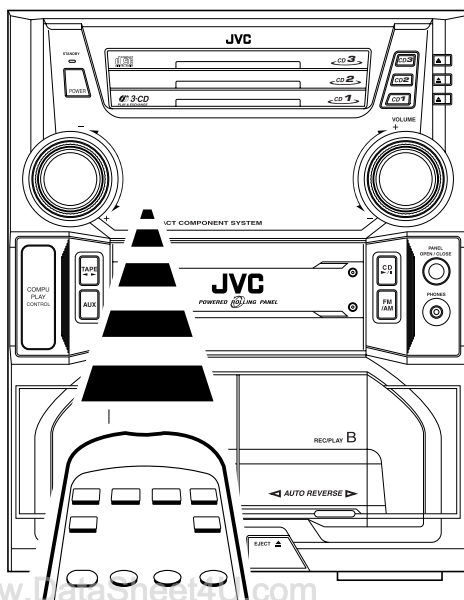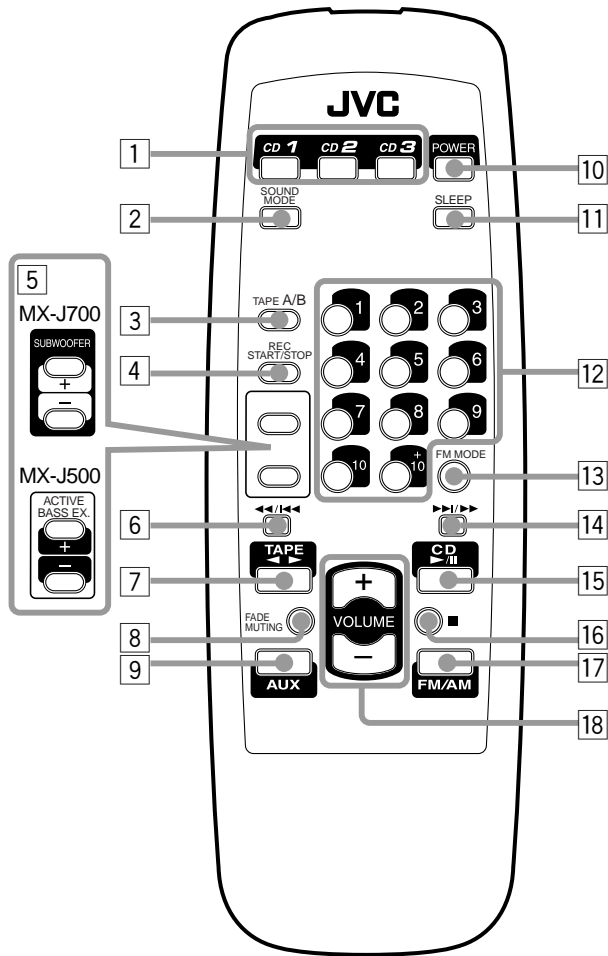21. REC START/STOP button (17, 19)
22. DUBBING button (18)

23. CD REC START button (18, 19)
24. TAPE A/B button (16)
25. CLOCK/TIMER button (9, 20 – 22)
26. SET button (9, 12, 20 – 22)
27. ■ (stop) button (13 – 19)
28. TUNING – / + buttons (12)
    ◄◄ / ►► (fast left/fast right) buttons (11, 14, 16)
29. SEA CONTROL button (11)
30. PROGRAM/RANDOM button (14, 15, 18)
31. EDIT button (19)
32. REPEAT button (15)
33. DISPLAY button (9)
34. SOUND MODE button (10)
35. CANCEL button (9, 15, 20)
    DEMO button (8)

Display window

1. Tuner operation indicators
   • MONO and STEREO indicators
2. Timer indicators
   • DAILY (Daily Timer), REC (Recording Timer), SLEEP, and ⏲ (Timer) indicators
3. CD play mode indicators
   • REPEAT (ALL/1CD/1), PROGRAM, and RANDOM indicators
4. CD track number indicators
5. Disc indicators
6. Audio level indicator
   SEA (Sound Effect Amplifier) pattern indicator
7. For MX-J700: SUBWOOFER indicator (10)
   For MX-J500: BASS indicator (10)
8. Tape operation indicators
   • (↻) (reverse mode), A/B (operating deck), ◄ ► (tape direction), and REC (recording) indicators
9. Main display
   • Shows the source name, frequency, etc.
10. SOUND MODE indicator

Remote Control

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

Remote Control

1. Disc number buttons (CD1, CD2, and CD3) (13)
   Pressing one of these buttons also turns on the unit.
2. SOUND MODE button (10)
3. TAPE A/B button (16)
4. REC START/STOP button (17, 19)
5. For MX-J700: SUBWOOFER + / – buttons (10)
   For MX-J500: ACTIVE BASS EX. (extension) + / – buttons (10)
6. ◄◄ / I◄◄ (fast left/reverse search) button (14 – 16)
7. TAPE ◄ ► button (9, 16)
   Pressing this button also turns on the unit.
8. FADE MUTING button (10)
9. AUX button (9)
   Pressing this button also turns on the unit.
10. POWER button (9)
11. SLEEP button (22)
12. Number buttons (12, 14)
13. FM MODE button (12)
14. ►►I / ►► (forward search/fast right) button (14 – 16)
15. CD ►/II button (9, 13)
    Pressing this button also turns on the unit.
16. ■ (stop) button (13 – 19)
17. FM/AM button (9, 12)
    Pressing this button also turns on the unit.
18. VOLUME + / – buttons (10)
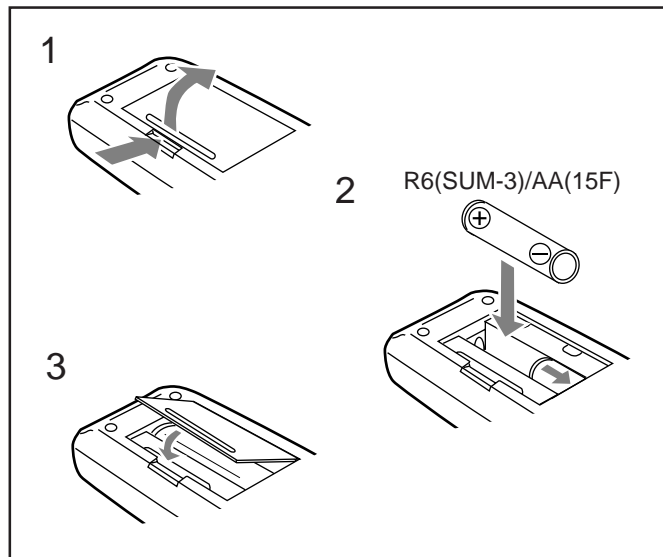
– 5 –

Getting Started

Unpacking

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

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

If any is missing, consult your dealer immediately.

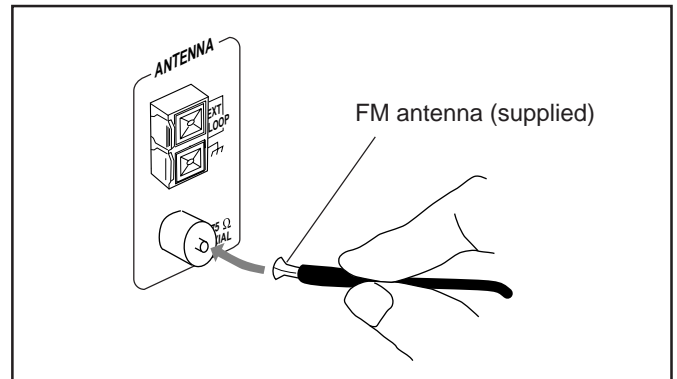## Putting the Batteries into the Remote Control

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

1

2 R6(SUM-3)/AA(15F)

3

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

Connecting Antennas

FM antenna

FM antenna (supplied)

1 **Attach the FM antenna to the FM 75 Ω COAXIAL terminal.**

2 **Extend the FM antenna.**

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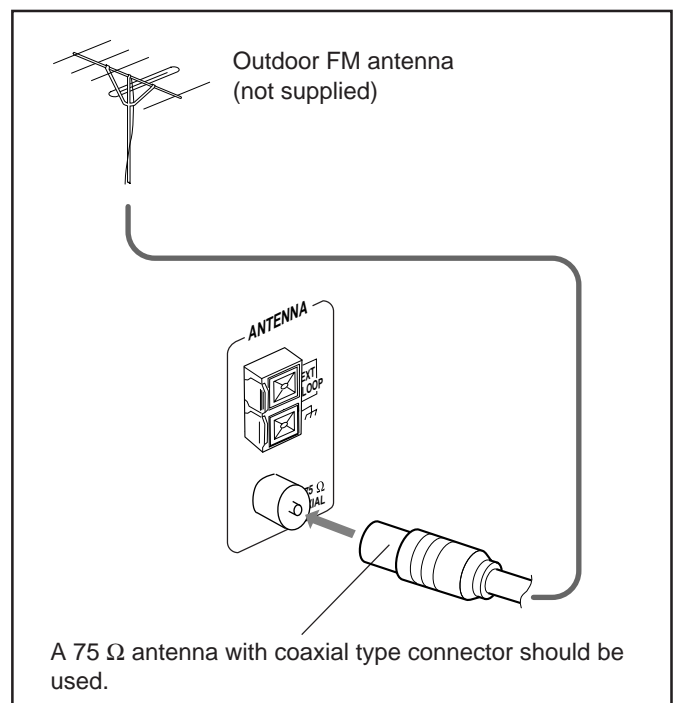
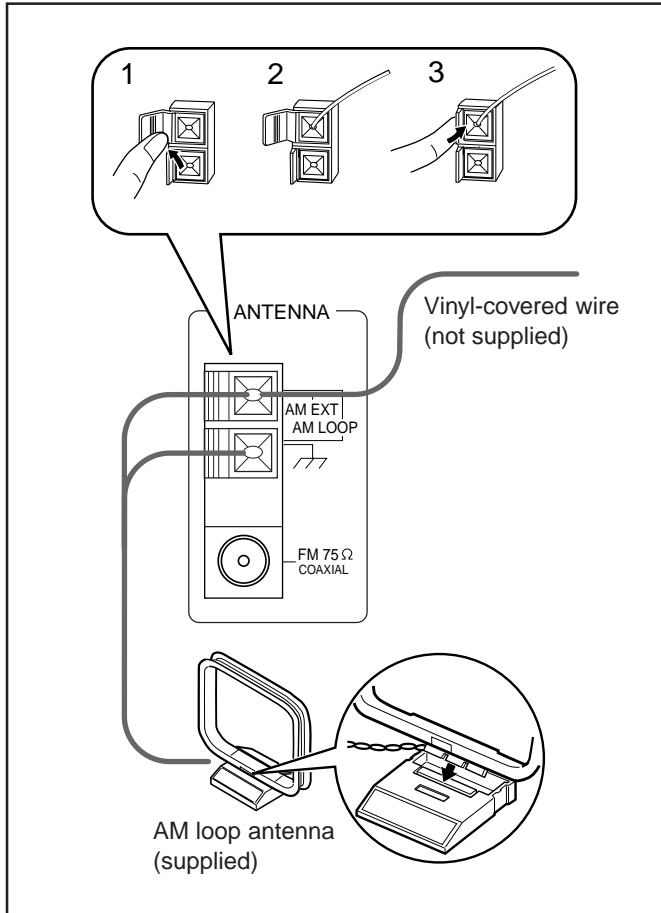📝 **notes**

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

To connect an outdoor FM antenna
Before connecting it, disconnect the supplied FM antenna.

Outdoor FM antenna (not supplied)

A 75 Ω antenna with coaxial type connector should be used.

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AM antenna

ANTENNA

Vinyl-covered wire (not supplied)

AM EXT
AM LOOP

FM 75 Ω COAXIAL

AM loop antenna (supplied)

1 **Connect the AM loop antenna to the AM LOOP terminals as illustrated.**

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

To connect an outdoor AM antenna

When reception is poor, connect a single vinyl-covered wire to the AM EXT terminal and extend it horizontally. (The AM loop antenna must remain connected.)
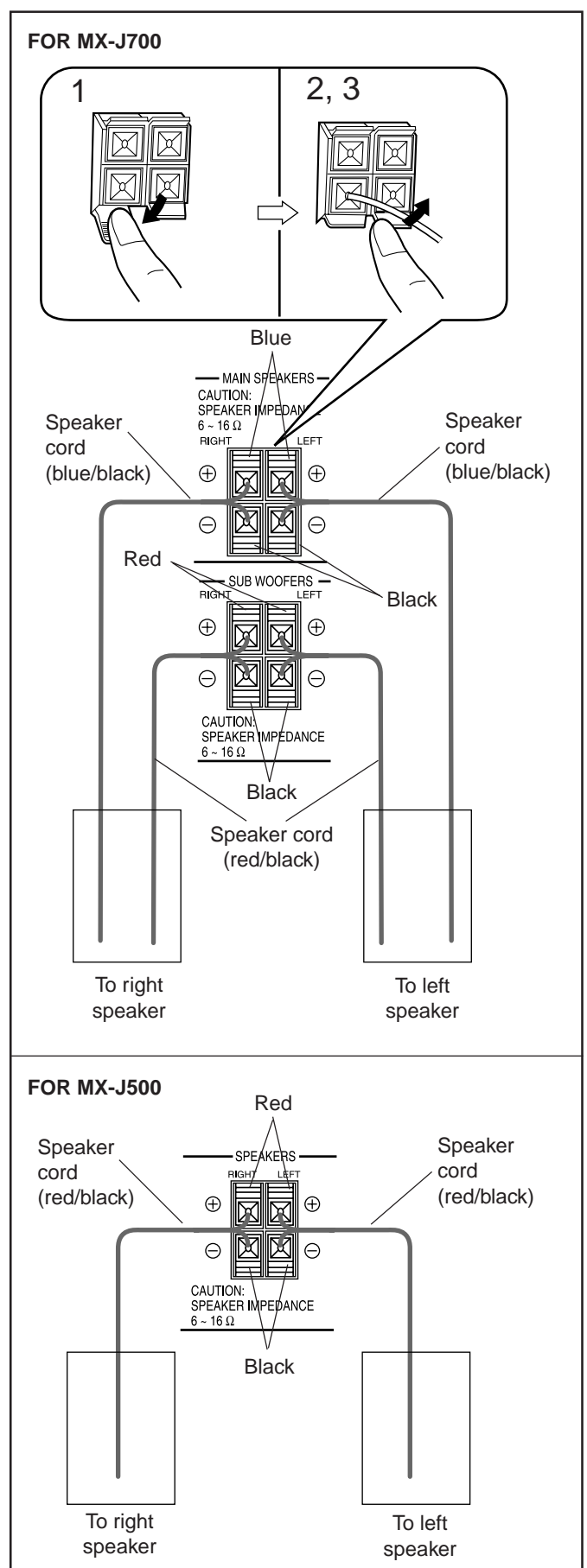
notes
For better reception of both FM and AM
• Make sure the antenna conductors do not touch any other terminals and connecting cords.
• Keep the antennas away from metallic parts of the unit, connecting cords, and the AC power cord.

Connecting Speakers

FOR MX-J700

Blue

MAIN SPEAKERS
CAUTION:
SPEAKER IMPEDANCE
6 ~ 16 Ω
RIGHT   LEFT

Speaker cord (blue/black)

Speaker cord (blue/black)

Red

SUB WOOFERS
RIGHT   LEFT

Black

Black

Speaker cord (red/black)

To right speaker

To left speaker

FOR MX-J500

Red

SPEAKERS
RIGHT   LEFT

Speaker cord (red/black)

Speaker cord (red/black)

CAUTION:
SPEAKER IMPEDANCE
6 ~ 16 Ω

Black

To right speaker

To left speaker

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

2 Insert the end of the speaker cord into the terminal.
- For MX-J700: Match the polarity (colors) of the speaker terminals: Blue (+) to blue (+) and black (–) to black (–); Red (+) to red (+) and black (–) to black (–).
- For MX-J500: Match the polarity (colors) of the speaker terminals: Red (+) to red (+) and black (–) to black (–).

3 Release the finger from the clamp.

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

Connecting Other Equipment

You can connect both analog and digital equipment.

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

To connect an analog component

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

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

To connect audio equipment with an optical digital input terminal

You can record CD sound onto the connected digital equipment.

Connect an optical digital cord (not supplied) between the optical digital input terminal on the other equipment and the CD OPTICAL DIGITAL OUTPUT terminal.

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

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

To stop the display demonstration, press any button on the unit or on the remote control.

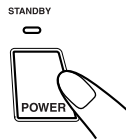| |
|---|
| **To start the display demonstration manually Press and hold DEMO for more than 2 seconds.**

DEMO
CANCEL

To stop the demonstration, press any button. |

– 8 –

Common Operations

Turning On or Off the Power

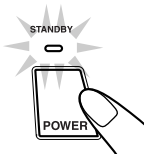**To turn on the unit,** press POWER so that the STANDBY lamp goes off.

WELCOME

The Powered Rolling Panel opens automatically.

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

GOOD BYE

The Powered Rolling Panel also closes.
A little power is always consumed even while the unit is on standby.

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

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

The clock is reset to "AM 12:00" right away, while the tuner preset stations (see page 12) will be erased in a few days.

Setting the Clock

Before operating the unit any further, first set the clock built in this unit.

On the unit ONLY:

1 Press PANEL OPEN/CLOSE.

The unit is turned on and the Powered Rolling Panel opens automatically.

2 Press CLOCK/TIMER.

AM 12:00

The hour digits start flashing on the display.

3 Press |◄◄ or ►►| to adjust the hour, then press SET.

PM 5:00

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

4 Press |◄◄ or ►►| to adjust the minute, then press SET.
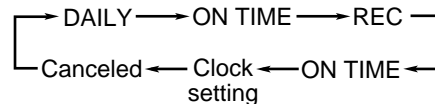
CLOCK OK

To check the clock time
Press DISPLAY while playing any source.
• Each time you press the button, the source indication and the clock time alternate on the display.

To adjust the clock again
If you have adjusted the clock before, you need to press CLOCK/TIMER repeatedly until the clock setting mode is selected.
• Each time you press the button, the clock/timer setting modes change as follows:

```
┌─→ DAILY ──→ ON TIME ──→ REC ─┐
│                                │
└─ Canceled ←─ Clock ←─ ON TIME ←┘
               setting
```
(The hour digits start flashing.)

notes **If there is a power failure**
The clock loses the setting and is reset to "AM 12:00." You need to set the clock again.
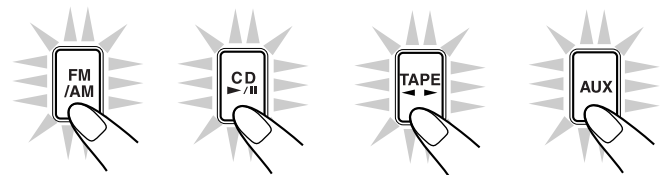
Selecting the Sources

To listen to the FM/AM broadcasts, press FM/AM. (See page 12.)
To play back CDs, press CD ►/II. (See pages 13 – 15.)
To play back tapes, press TAPE ◄ ►. (See page 16.)
To select the external equipment as the source, press AUX.

When you press the play button for a particular source (FM/AM, CD ►/II, AUX, and TAPE ◄ ►), the unit turns on, and the Powered Rolling Panel opens automatically (and the unit starts playing the source if it is ready — COMPU PLAY CONTROL).
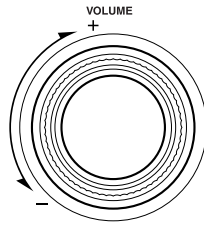
Adjusting the Volume

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

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

VOLUME
+
−

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

VOL 15

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

notes **For private listening**
Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers. Be sure to turn down the volume before connecting or putting on headphones.

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

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

FADE
MUTING

Reinforcing the Bass Sound

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

For MX-J700
The SUBWOOFER VOLUME control provided for this unit can enhance the subwoofer sound if subwoofers are connected to the rear of this unit (see page 7).

Turn the SUBWOOFER VOLUME control clockwise to increase the subwoofer sound or counterclockwise to decrease it.

SUBWOOFER
VOLUME
−
+

• The subwoofer level can be adjusted in 6 steps (WOOFER 1 — WOOFER 5, and MAX).

WOOFER 3

SUB
WOOFER

SUBWOOFER indicator always lights up when the unit is on.

When using the remote control, press SUBWOOFER + to increase the subwoofer volume or press SUBWOOFER – to decrease it.
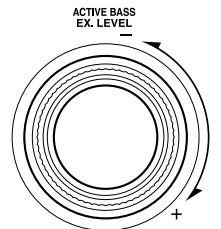
For MX-J500
The ACTIVE BASS EX. (extension) LEVEL control provided for this unit can maintain the richness and fullness of the bass sound while listening to any source at low volume.

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

ACTIVE BASS
EX. LEVEL
+

• The bass sound level can be adjusted in 4 steps (BASS 1 — BASS 3, and MAX).

BASS

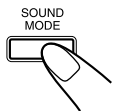*BASS 3*

BASS indicator always lights up when the unit is on.

When using the remote control, press ACTIVE BASS EX. + to increase the bass sound level or press ACTIVE BASS EX. – to decrease it.

To cancel the Active Bass Extension, turn the control counterclockwise until "BASS OFF" appears.
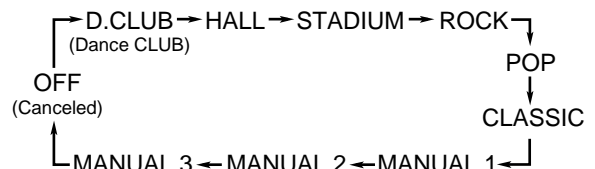
Selecting the Sound Modes

You can select one of the 6 preset sound modes (3 surround modes and 3 SEA — Sound Effect Amplifier — modes). This function only affects the playback sound, but does not affect your recording.
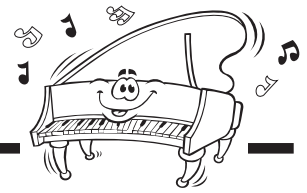
To select the sound modes, press SOUND MODE until the sound mode you want appears on the display. The SOUND MODE indicator also lights up on the display.

SOUND
MODE

D.CLUB

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

D.CLUB → HALL → STADIUM → ROCK
(Dance CLUB)
OFF   POP
(Canceled)
                                      CLASSIC
MANUAL 3 ← MANUAL 2 ← MANUAL 1

– 10 –

Surround modes *:
D.CLUB: Increases resonance and bass.
HALL: Adds depth and brilliance to the sound.
STADIUM: Adds clarity and spreads the sound, like in an outdoor stadium.

SEA (Sound Effect Amplifier) modes:
ROCK: Boosts low and high frequency. Good for acoustic music.
POP: Good for vocal music.
CLASSIC: Good for classical music.

Manual modes:
MANUAL 1/2/3:
Your individual mode stored in memory. See "Creating Your Own Sound Mode — Manual Mode."

OFF: Cancels the sound mode.

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

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

Creating Your Own Sound Mode — Manual Mode

You can change SEA pattern to suit your preference. These changed settings can be stored in the MANUAL 1, 2, and 3 modes.

• There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
• **If you want to add the surround elements in your SEA pattern,** select one of the surround modes (D.CLUB, HALL, or STADIUM) before starting the procedure below.
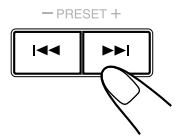
On the unit ONLY:

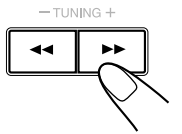**1** **Press and hold SEA CONTROL until "SEA CONT" appears on the display.**

SEA CONTROL

$$SEA\ CONT$$

$$LOW\ \pm 0$$

Current level appears.

2 **Adjust the SEA pattern.**

   1) **Press |◄◄ or ►►| to select the frequency range to adjust (LOW, MID, HIGH).**
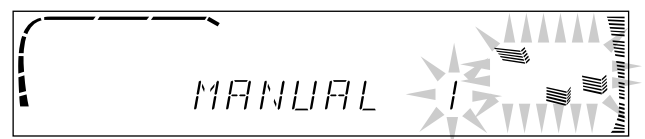
   — PRESET +
   |◄◄   ►►|

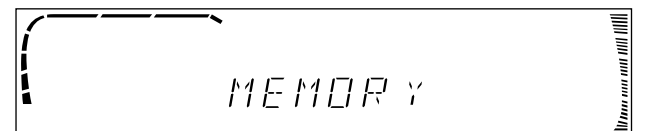   2) **Press ◄◄ or ►► to adjust the level (–3 to +3) of the selected frequency range.**

   — TUNING +
   ◄◄   ►►

   3) **Repeat steps 1) and 2) to adjust the level of the other frequency ranges.**

3 **Press SEA CONTROL again.**

SEA CONTROL

$$MANUAL\ 1$$

4 **Press |◄◄ or ►►| to select one of the MANUAL 1, 2, and 3 modes into which you want to store the SEA pattern.**

5 **Press SEA CONTROL again.**

SEA CONTROL

$$MEMORY$$

The SOUND MODE indicator also lights up.
The SEA pattern you have created are stored into the MANUAL mode selected in the above step.

To use your own sound mode

Select MANUAL 1, 2, or 3 mode when using the sound modes. See "Selecting the Sound Modes."

Listening to FM and AM Broadcasts

Tuning in a Station

1 Press FM/AM.

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

• Each time you press the button, the band alternates between FM and AM.
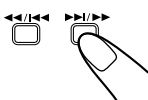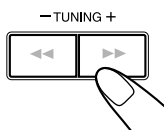
2 Start searching for stations.
On the unit:
Press and hold TUNING – / + for more than 1 second.
On the remote control:
Press and hold ◄◄ / I◄◄ or ►►I / ►► for more than 1 second.
The unit starts searching for stations and stops when a station of sufficient signal strength is tuned in. If a program is broadcast in stereo, the STEREO indicator lights up.

To stop during searching, press TUNING – / + (or ◄◄ / I◄◄, ►►I / ►►).

notes **When you press TUNING – / + (or ◄◄ / I◄◄, ►►I / ►►) briefly and repeatedly**
The frequency changes step by step.

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

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

Presetting Stations

You can preset 30 FM and 15 AM stations.
In some cases, test frequencies have been already memorized for the tuner since the factory examined the tuner preset function before shipment. This is not a malfunction. You can preset the stations you want into memory by following the presetting method.

• There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
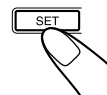
On the unit ONLY:

1 Tune in the station you want to preset.
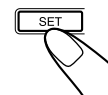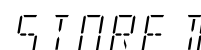• See "Tuning in a Station" above.

FM 87.5 MHz

2 Press SET.

SET

3 Press PRESET – / + to select a preset number.

P- 1

4 Press SET again.

STORE 1

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

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

notes **When you unplug the AC power cord or if a power failure occurs**
The preset stations will be erased in a few days. If this happens, preset the stations again.

Tuning in a Preset Station

1 Press FM/AM.

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

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

2 Select a preset number.
On the unit:
Press PRESET – / +.
On the remote control:
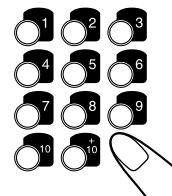**Press the number buttons.**
For preset number 5, press 5.
For preset number 15, press +10 then 5.
For preset number 20, press +10, then 10.
For preset number 25, press +10, +10, then 5.
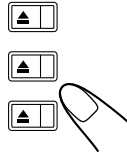For preset number 30, press +10, +10, then 10.
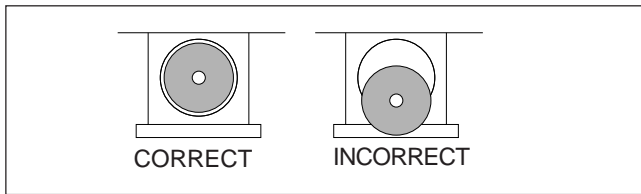
Playing Back CDs

Loading CDs

On the unit ONLY:

1 Press ⏏ for the disc tray (CD1 to 3) you want to load a CD onto.
The unit automatically turns on and the disc tray comes out. The Powered Rolling Panel also opens automatically.
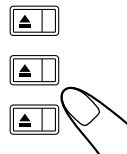
2 Place a disc correctly on the circle of the disc tray, with its label side up.

CORRECT   INCORRECT

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

3 Press the same ⏏ you have pressed in step 1.
The disc tray closes, and the corresponding disc indicator (CD1 to CD3) lights up on the display.

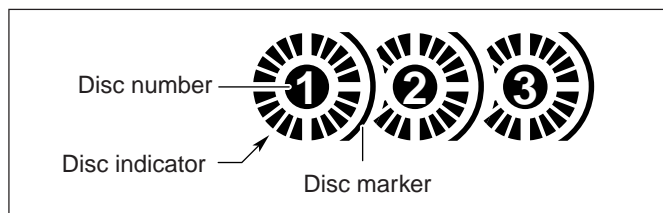**4 Repeat steps 1 to 3 to place other CDs.**

notes **When loading more than one CD continuously**
When you press ⏏ for the next tray you want to place another CD onto, the first disc tray automatically closes and then the next tray comes out.

notes **About the disc indicators**
Each disc indicator corresponds to the disc tray of the same number.

Disc number
Disc indicator
Disc marker

- The disc marker lights up for the disc number you have selected.
- The disc indicator flashes while the corresponding CD is being played.
- The disc indicator goes off when the unit has detected that there is no CD on the corresponding disc tray.
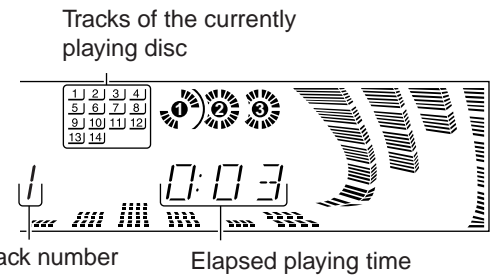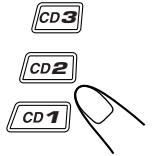
Playing Back the Entire Discs — Continuous Play

You can play CDs continuously.

1 Load CDs.

2 Press one of the disc number buttons (CD1, CD2, and CD3) for the disc you want to play.
CD play starts from the first track of the selected disc.

Tracks of the currently playing disc

Track number   Elapsed playing time

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

To stop during play, press ■.

To remove the disc, press ⏏ for the corresponding disc tray.

notes **CD playback sequence**
When 3 CDs are loaded on the disc trays, they are played in one of the following sequences.
- When CD1 is pressed : CD1 ⇨ CD2 ⇨ CD3 (then stops)
- When CD2 is pressed : CD2 ⇨ CD3 ⇨ CD1 (then stops)
- When CD3 is pressed : CD3 ⇨ CD1 ⇨ CD2 (then stops)
* When only 2 CDs are loaded, they are played in the same order, but the disc tray without a CD is skipped.

Basic CD Operations

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

To exchange CDs during playback of another
Press ⏏ corresponding to a CD, not playing or selected currently, to eject and exchange the CD.
If you exchange CDs during play, the current play will not stop until all CDs you have exchanged are played.

To stop play for a moment
Press CD ▶/Ⅱ.
While pausing, the elapsed playing time flashes on the display.

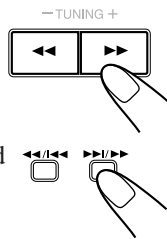**To resume play,** press CD ▶/Ⅱ again.

To locate a particular point in a track

During play, press and hold ◄◄ or ►►.
- ◄◄: Fast reverses the disc.
- ►►: Fast forwards the disc.

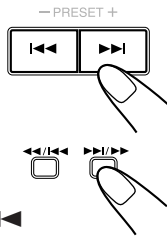When using the remote control, press and hold ◄◄ / I◄◄ or ►►I / ►►.

To go to another track

Press I◄◄ or ►►I repeatedly before or during playback.
- I◄◄: Goes back to the beginning of the current or previous tracks.
- ►►I: Skips to the beginning of the next or succeeding tracks.
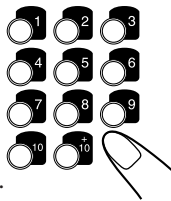
When using the remote control, press ◄◄ / I◄◄ or ►►I / ►►.

notes **If you press and hold I◄◄ / ►►I (or ◄◄ / I◄◄ or ►►I / ►► before playing)**

You can change the tracks continuously.

To go to another track directly using the number buttons

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

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

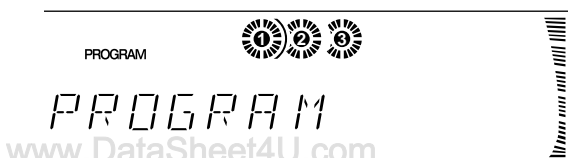## Programming the Playing Order of the Tracks — Program Play

You can arrange the order in which the tracks play before you start playing. **You can program up to 32 tracks.**
- To use Repeat play (see page 15) for Program play, press REPEAT after starting Program play.
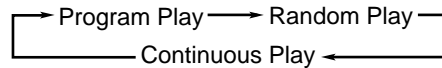
1 Load CDs.
- If the current playing source is not the CD player, press CD ►/II, then ■ before going to the next step.

2 Press PROGRAM/RANDOM repeatedly until "PROGRAM" appears on the display.
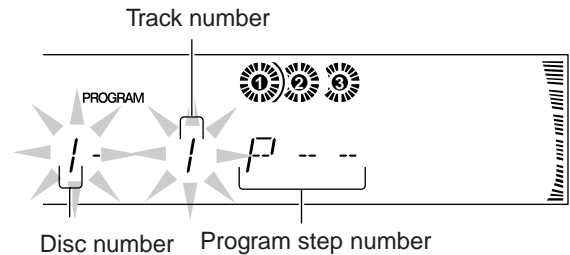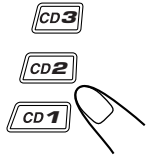
- If a program has been stored in memory, the program is called up.

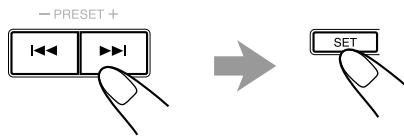- Each time you press the button, CD play mode changes as follows:

→ Program Play → Random Play →
↑ Continuous Play ←

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

Track number

Disc number   Program step number

4 Select a track from the CD selected in the above step.
On the unit:
Press I◄◄ or ►►I to select the track number, then press SET.

On the remote control:
Press the number buttons.
- For how to use the number buttons, see "To go to another track directly using the number buttons" described to the left.

5 Program other tracks you want.
- To program tracks from the same disc, repeat step 4.
- To program tracks from a different disc, repeat steps 3 and 4.

6 Press CD ►/II.
The tracks are played in the order you have programed.

To stop during play, press ■.

To exit from Program play mode, press PROGRAM/ RANDOM repeatedly again before or after play so that the unit enters another play mode. (The program you have made is stored in memory until you turn off the unit or erase the program.)

– 14 –

To check the program contents

Before playing, you can check the program contents by pressing ◀◀ / I◀◀ or ▶▶I / ▶▶ on the remote control.
- ▶▶I / ▶▶: Shows the programed tracks in the programed order.
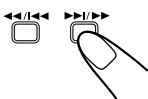- ◀◀ / I◀◀: Shows them in the reverse order.

To modify the program

Before playing, you can erase the programed tracks shown on the display by pressing CANCEL.
- Each time you press the button, the programed track shown on the display is erased from the program.

To add tracks in the program before play, simply select the track numbers you want to add by following step 4 of the programming procedure on page 14.

To erase the entire program before or after play, press ■. "PROGRAM" appears on the display.
- Ejecting a CD will also erase the track numbers programed from the ejected CD.

notes **If you try to program a 33rd track**
"FULL" will appear on the display.

notes **If your entry is ignored**
You have tried to program a track from an empty tray, or a track number that does not exist on the CD (for example, selecting track 14 on a CD that only has 12 tracks). Such entries are ignored.
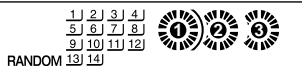
Playing at Random — Random Play

The tracks of all loaded CDs will play at random.
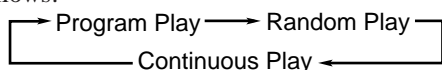- To use Repeat play for Random play, press REPEAT after starting Random play.

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

2 Press PROGRAM/RANDOM repeatedly until "RANDOM" appears on the display.

$$R\ A\ N\ D\ O\ M$$

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

```
  ┌─ Program Play ──→ Random Play ─┐
  └──── Continuous Play ◀──────────┘
```

3 Press CD ▶/II.
The tracks are played at random. Random play ends when all the tracks are played once.

To skip the currently playing track, press ▶▶I (or ▶▶I / ▶▶ on the remote control).

To stop during play, press ■.
- Random play also stops when one of the disc trays is opened.

To exit from Random play mode, press PROGRAM/ RANDOM repeatedly again before or after play so that the unit enters another play mode.
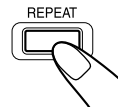
notes **Even if you press I◀◀ (or ◀◀ / I◀◀ on the remote control)**
You cannot go back to the previous tracks during Random play.
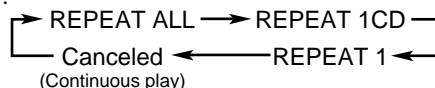
Repeating Tracks or CDs — Repeat Play

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

To repeat play, press REPEAT during or before playing. To use Repeat play for Program play and Random play, press the button after starting playback.
- Each time you press the button, Repeat play mode changes as follows, and the following indicator lights up on the display:

```
  ┌─→ REPEAT ALL ──→ REPEAT 1CD ─┐
  └── Canceled ◀──── REPEAT 1 ◀──┘
     (Continuous play)
```

REPEAT ALL: Repeats all the tracks on all the CDs (continuously or at random), or all the tracks in the program.
REPEAT 1CD*: Repeats all the tracks on one CD.
REPEAT 1: Repeats one track on one CD.
* REPEAT 1CD is not used for Program play and Random play.

To cancel Repeat play, press REPEAT repeatedly until the REPEAT indicator (REPEAT ALL, REPEAT 1CD, or REPEAT 1) goes off from the display.
- Repeat play is also canceled when you select Program play or Random play.

Prohibiting Disc Ejection — Tray Lock

You can prohibit CD ejection from the unit and can lock CDs.
- This operation is possible only using the buttons on the unit.

To prohibit disc ejection, press ▲ for any disc tray while holding ■. (If there is any disc tray opened, close it first.) "LOCKED" appears for a while, and the loaded CDs are locked.
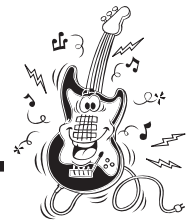
To cancel the prohibition and unlock the CDs, press ▲ for any disc tray while holding ■.
"UNLOCKED" appears for a while, and the loaded CDs are unlocked.

notes **If you try to eject CDs**
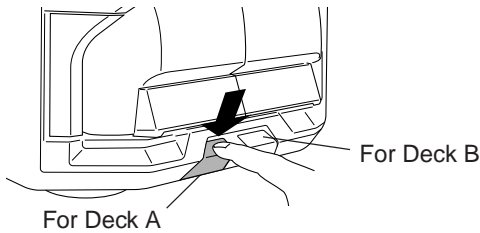"LOCKED" appears to inform you that the Tray Lock is in use.
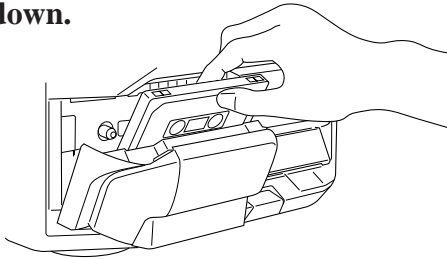
Playing Back Tapes

You can play back type I, type II, and type IV tapes without changing any settings.

Playing Back a Tape

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

For Deck B

For Deck A

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

3 **Close the cassette holder gently.**
If you put cassettes in both decks A and B, the last deck you have put a cassette into is selected.
To operate the other deck, press TAPE A/B.

4 **Press TAPE ◄ ►.**
The tape play starts and the tape direction indicator (◄ ►) starts flashing slowly to indicate the tape running direction.
- Each time you press the button, the tape direction changes.
  - ► : plays the front side.
  - ◄ : plays the reverse side.

When the tape plays to the end, the deck automatically stops if the Reverse Mode is not on. (See "To play both sides repeatedly — Reverse Mode.")

To stop during play, press ■.

To operate the other deck, press TAPE A/B, then TAPE ◄ ►.

To fast wind to the left or to the right, press ◄◄ / ►►
(◄◄ / I◄◄ or ►►I / ►► on the remote control) while the tape is not running.
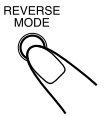The tape direction indicator (◄ ►) starts flashing quickly on the display.

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

To play both sides repeatedly — Reverse Mode
Reverse Mode works for both decks at the same time.
When it is in use, the tape automatically reverses at the end of a side and the unit starts playing the other side of the tape, and repeats the same process.

To use Reverse Mode, press REVERSE MODE so that the Reverse Mode indicator on the display lights up like — (⟳)

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

notes **When Reverse Mode is on with cassettes in both decks A and B**
After the reverse (◄) side of the tape finishes playing, the tape in the other deck starts playing.

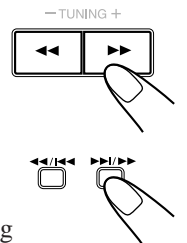## Locating the Beginning of a Song — Music Scan

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

To find the beginning of the current song
During play, press ◄◄ / ►► (◄◄ / I◄◄ or ►►I / ►► on the remote control) in **the opposite direction** to the tape play.
The tape direction indicator of the opposite direction to the tape play starts flashing slowly.

─ TUNING +

Searching stops automatically at the beginning of the current song, and the current song starts automatically.

To find the beginning of the next song
During play, press ◄◄ / ►► (◄◄ / I◄◄ or ►►I / ►► on the remote control) in **the same direction** as the tape play.
The tape direction indicator of the same direction as the tape play starts flashing slowly and quickly alternately.

Searching stops automatically at the beginning of the next song, and the next song starts automatically.

notes **Music Scan works by detecting a 4-second long blank between each song, so it will not work well in the following cases**
- No blank at the beginning of a song.
- Noise (often caused by much use or poor quality dubbing) which fills the blank.
- Long, very soft passages or pauses in a song.

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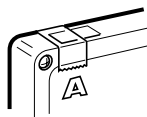
Recording

IMPORTANT:

- **It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic embodied therein.**
- The recording level is automatically set correctly, so it is not affected by the VOLUME control (and the SUBWOOFER VOLUME control for MX-J700; ACTIVE BASS EX. LEVEL control for MX-J500). Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
- While recording, you can hear sound modes through the speakers or headphones. However, the sound is recorded without these effects (see page 10).
- 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 use type I and II tapes for recording.

To protect your recording

Cassettes have two small tabs on the back to protect unexpected erasure or re-recording.
To protect your recording, remove these tabs.
To re-record on a protected tape, cover the holes with adhesive tape.
When using type II tape, be careful not to cover the holes used to detect the tape type.
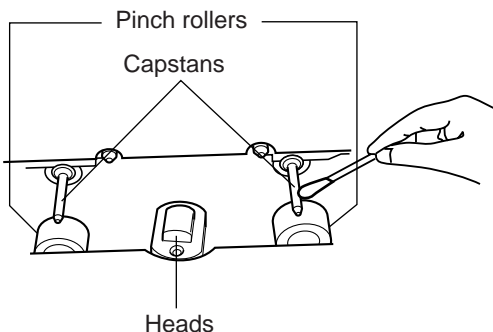
To keep the best recording and playback sound quality

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

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

To clean the heads, capstans, and pinch rollers

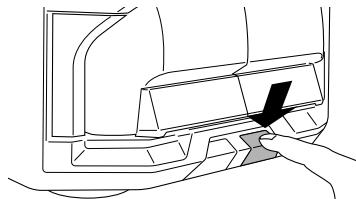Use a cotton swab moistened with alcohol.

Pinch rollers

Capstans

Heads

To demagnetize the heads

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

Recording a Tape on Deck B

1 Press EJECT ⏏ for the deck B.

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

3 Close the cassette holder gently.

4 Check the tape direction of deck B.
- If the tape direction is not correct, press TAPE ◄ ► twice then ■ to change the tape direction.

5 Start playing the source — FM, AM*, CD player, deck A, or auxiliary equipment connected to AUX jacks.
- When the source is CD, you can also use CD Direct Recording (see page 18) and Auto Edit Recording (see page 19).
- When the source is deck A, you can also use the dubbing method. (See "Dubbing Tapes" on page 18.)

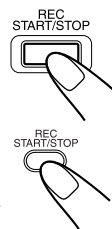 * See "To record an AM station — Beat Cut" on page 18.

6 Start recording.
On the unit:
Press REC START/STOP.
On the remote control:
Press and hold REC START/STOP for more than 1 second.
The REC (recording) indicator lights up on the display and recording starts.

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

To remove the cassette, press EJECT ⏏ for deck B.

To record on both sides — Reverse Mode

Press REVERSE MODE so that the Reverse Mode indicator lights up as —

- When using the Reverse Mode for recording, start recording in the forward (►) direction first.
  Otherwise, recording will stop when recording is done only on one side (reverse) of the tape.
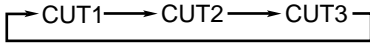
To cancel Reverse Mode, press the button again so that the Reverse Mode indicator lights up as —

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To record an AM station — Beat Cut

While recording an AM broadcast, beats may be heard (which are never heard when listening to the broadcast without recording it).

If this occurs, press PROGRAM/RANDOM repeatedly, while recording, until the beats are reduced.
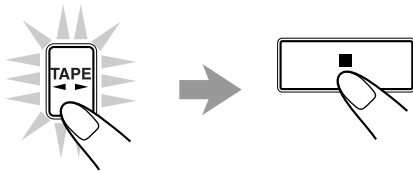
PROGRAM /RANDOM

- Each time you press the button, the display changes to show the following:

┌─▶ CUT1 ──▶ CUT2 ──▶ CUT3 ┐

Dubbing Tapes

It is preferable that the tape type (type I or II) you record from be the same as the tape type you record onto when dubbing tapes.
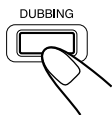
1 Press TAPE ◀ ▶, then ■.

TAPE ◀ ▶

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

- Put the cassettes in both decks so that the tapes will run in the forward (▶) direction.
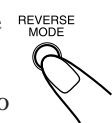
3 Press DUBBING.

Dubbing starts.

DUBBING

To stop during dubbing, press ■.

To record on both sides — Reverse Mode

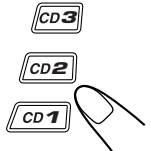Press REVERSE MODE so that the Reverse Mode indicator lights up as — (⤸)

REVERSE MODE

To cancel Reverse Mode, press the button again so that the Reverse Mode indicator lights up as — → ←

CD Direct Recording

Everything on the CD goes onto the tape in the order it is on the CD, or according to the order you have made for Program play.

1 Put a recordable cassette into deck B.

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

CD3

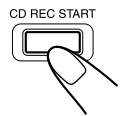### 3 Press one of the disc number buttons (CD1 to CD3) to select the disc, then ■.

CD2

CD1

4 Press CD REC START.

CD REC START

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

Deck B starts recording and the CD player starts playing.

When the recording is done, "CD REC FINISHED" appears on the display, and the CD player and deck B stop.

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

To record on both sides — Reverse Mode

Press REVERSE MODE so that the Reverse Mode indicator lights up as — (⤸)

REVERSE MODE

- When using the Reverse Mode for CD Direct Recording, start recording in the forward (▶) direction first. When the tape reaches its end while recording a song in the forward direction (▶), the last song will be recorded at the beginning of the reverse side (◀).

If you start recording on the reverse side (◀), recording will stop when recording is done only on one side (reverse) of the tape.

To cancel Reverse Mode, press the button again so that the Reverse Mode indicator lights up as — → ←
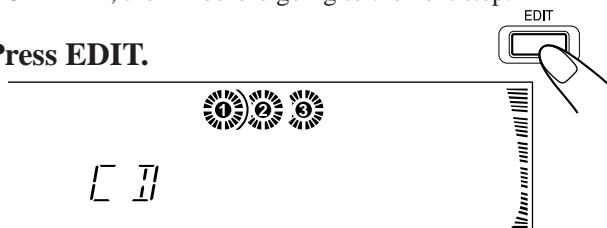
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Auto Edit Recording

By using Auto Edit Recording, you can record the CD tracks to fit the tape. Auto Edit Recording makes a program by selecting the CD tracks in numerical order. However, to prevent the end of the last track on the front side from being cut off, the last track is selected so as to fit on the remaining tape length.
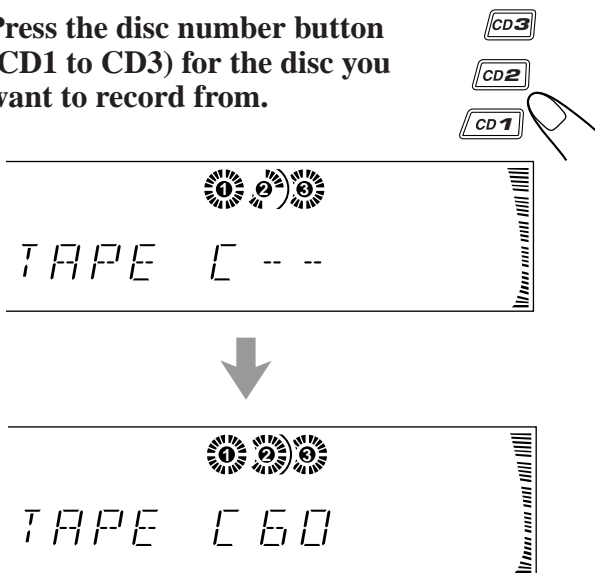
On the unit ONLY:

1 Load CDs.
  • If the current playing source is not the CD player, press CD ►/❚❚, then ■ before going to the next step.

2 Press EDIT.

    C D

3 Press the disc number button (CD1 to CD3) for the disc you want to record from.
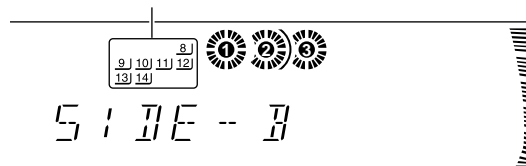
    TAPE C --

    TAPE C 60

The optimum tape length for the disc appears.

To change the tape length manually
If the tape length selected is not satisfactory, you can change the tape length by pressing ◄◄ or ►►❘.
You can select the tape length among the following — 40, 46, 50, 54, 60, 64, 70, 74, 80, 84, and 90.

4 Press SET.

Tracks to be recorded on the reverse side (SIDE-B) appear.

    SIDE - B

  • Each time you press the button, the tracks to be recorded on the front side (SIDE-A) and on the reverse side (SIDE-B) alternate.

5 Put a recordable cassette of appropriate length into deck B.

6 Press REVERSE MODE so that the Reverse Mode indicator lights up as (⥂).
  • Without turning on the Reverse Mode (⥂), recording will stop when the front side of the tape is recorded.

7 Press CD REC START.
The REC (recording) indicator lights up on the display.
Deck B starts recording then, about 10 seconds later, the CD player starts playing.
When the recording is done, "CD REC FINISHED" appears on the display, and the CD player and deck B stop.
  • If a tape has not been rewound, deck B will rewind the tape before it starts recording.
  • A 10-second blank portion is automatically created at the beginning of each side of the tape.

To stop during Auto Edit Recording
Press ■ or REC START/STOP so that a 4-second blank portion is created on the recorded tape. (Remember a 4-second blank is important when using Music Scan — see page 16.)

To cancel Auto Edit Recording
Press CANCEL before or after play.
  • Pressing one of the following buttons will also cancel Auto Edit Recording — ■, REC START/STOP, and PROGRAM/RANDOM.

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Using the Timers

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

Before using the timers, you need to set the clock built in the unit. (See page 9.)

Using Daily Timer

With Daily Timer, you can wake to your favorite music or radio program.

How Daily Timer actually works

The unit automatically turns on, set the volume level to the preset level, and starts playing the specified source when the on-time comes (the ☼ indicator flashes just before the on-time, and continues flashing while the timer is operating). Then, when the off-time comes ("OFF" flashes just before the off-time), the unit automatically turns off (stands by).
The timer setting remains in memory until you change it.
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- If you have made a mistake while setting timer, press CANCEL. (However, this does not always work. If CANCEL does not work, press CLOCK/TIMER repeatedly and start from step 1 again.)
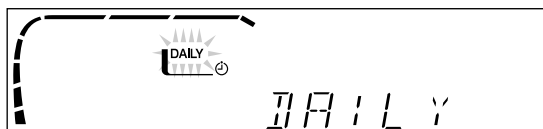
> **Before you start...**
> - *When using a CD as the source to play,* make sure there is a CD on the selected disc number tray.
> - *When using a tape as the source to play —*
>   – Make sure that a tape is in the deck whose deck indicator (A or B) is lit on the display.
>   – Make sure that the tape direction is correct.
> - *When using the external component as the source to play,* set the timer equipped with the external component at the same time.
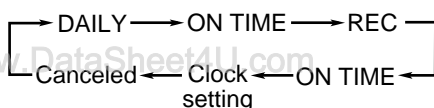
On the unit ONLY:

1 **Press CLOCK/TIMER until "DAILY" appears on the display.**
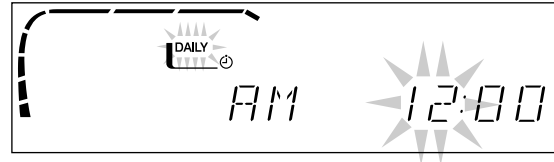The DAILY (Daily Timer) indicator also starts flashing on the display.

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

DAILY → ON TIME → REC → ON TIME → Clock setting → Canceled → (back to DAILY)
(See page 9.)

2 **Press CLOCK/TIMER again.**
"ON TIME" appears for 2 seconds, then the unit enters on-time setting mode.
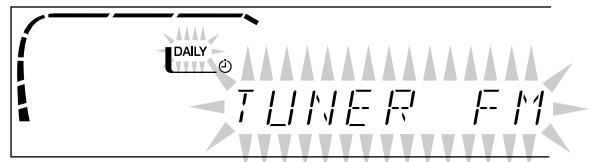

3 **Set the on-time you want the unit to turn on.**
1) Press I◄◄ or ►►I to set the hour, then press SET.
2) Press I◄◄ or ►►I to set the minute, then press SET.
"OFF TIME" appears for 2 seconds, then the unit enters off-time setting mode.
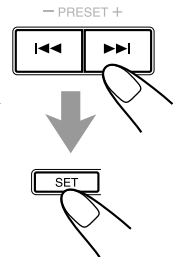
4 **Set the off-time you want the unit to turn off (on standby).**
1) Press I◄◄ or ►►I to set the hour, then press SET.
2) Press I◄◄ or ►►I to set the minute, then press SET.
The unit enters source selecting mode.

5 **Press I◄◄ or ►►I to select the source to play, then press SET.**
- Each time you press I◄◄ or ►►I, the source changes as follows:

TUNER FM ⟷ TUNER AM
AUX ⟷ TAPE ⟷ – CD – –

TUNER FM: tunes into a specified preset FM station.
➡ go to step 6.
TUNER AM: tunes into a specified preset AM station.
➡ go to step 6.
– CD – –: plays a disc from a specified track of a specified disc. ➡ go to step 6.
TAPE: plays a tape in deck A or B. ➡ go to step 7.
AUX: plays an external source. ➡ go to step 7.

6 When selecting "– CD　– –"

1) Press |◄◄ or ►►| to select the disc number, then press SET.
2) Press |◄◄ or ►►| to set the track number, then press SET.
   The unit enters volume setting mode.

When selecting "TUNER FM" or "TUNER AM"

Press |◄◄ or ►►| to select the preset station number, then press SET.
The unit enters volume setting mode.

7 Press |◄◄ or ►►| to set the volume level.

• You can select the volume level from among the following — "VOL – –," "VOL 5," "VOL 10," and "VOL 15."
  If you select " VOL – –," the volume is set to the last level when the unit has been turned off.
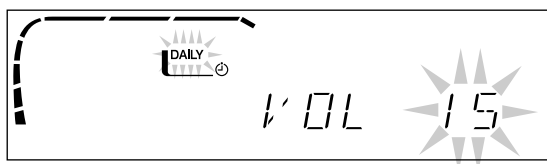
8 Press SET to complete the Daily Timer setting.

The DAILY (Daily Timer) indicator stops flashing and remains lit. The settings you have done are shown on the display in sequence.
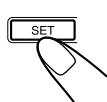
9 Press POWER to turn off the unit (on standby) if you have set the Daily Timer with the unit turned on.

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

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

2 To turn off the Daily Timer, press CANCEL.
   The DAILY (Daily Timer) indicator goes off from the display ("OFF" appears for a while). The Daily Timer is canceled, but the setting for the Daily Timer remains in memory.

   To turn on the Daily Timer, press SET.
   The DAILY (Daily Timer) indicator lights up on the display. The settings you have done are shown on the display in sequence for your confirmation.

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

Using Recording Timer

With Recording Timer, you can make a tape of a radio broadcast automatically.

How Recording Timer actually works

The unit automatically turns on, tunes into the specified station, sets the volume level to "MIN," and starts recording when the on-time comes (the ☾ indicator flashes just before the on-time, and continues flashing while the timer is operating). Then, when the off-time comes ("OFF" appears just before the off-time), the unit automatically turns off (stands by).
The timer setting remains in memory until you change it.
• There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
• If you have made a mistake while setting the timer, press CANCEL. (However, this does not always work. If CANCEL does not work, press CLOCK/TIMER repeatedly and start from step 1 again.)

On the unit ONLY:

1 Put a recordable cassette into deck B.

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

The REC (Recording Timer) indicator also starts flashing on the display.

• Each time you press the button, the timer setting modes change as follows:

DAILY → ON TIME → REC →
Canceled ← Clock setting ← ON TIME ←
(See page 9.)

3 Press CLOCK/TIMER again.

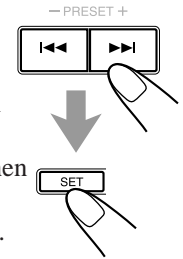"ON TIME" appears for 2 seconds, then the unit enters on-time setting mode.

– 21 –

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

1) Press |◄◄ or ►►| to set the hour, then press SET.

2) Press |◄◄ or ►►| to set the minute, then press SET.
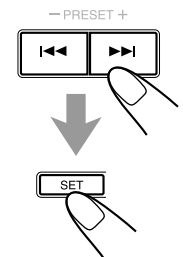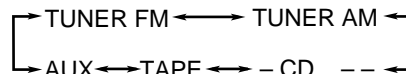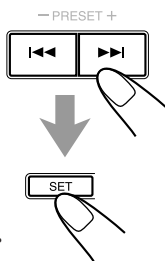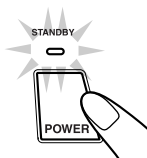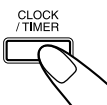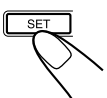"OFF TIME" appears for 2 seconds, then the unit enters off-time setting mode.

— PRESET +

SET

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

1) Press |◄◄ or ►►| to set the hour, then press SET.

2) Press |◄◄ or ►►| to set the minute, then press SET.
The unit enters preset station selecting mode.

— PRESET +

SET

6 Select the preset station.

1) Press |◄◄ or ►►| to select the band ("TUNER FM" or "TUNER AM"), then press SET.

2) Press |◄◄ or ►►| to select a preset channel number, then press SET.
The REC (Recording Timer) indicator stops flashing and remains lit. The settings you have done are shown on the display in sequence.

— PRESET +
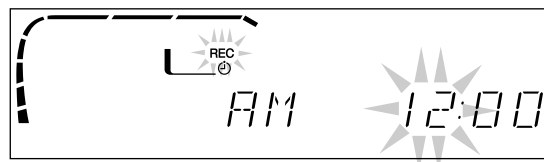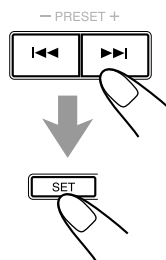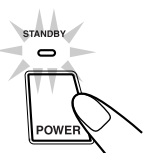
SET

7 Press POWER to turn off the unit (on standby) if necessary.

STANDBY

POWER

notes **If you want to listen to another source while recording**
Press REC START/STOP to stop recording. Without stopping it, you cannot change the source.

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

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

CLOCK /TIMER

2 **To turn off the Recording Timer, press CANCEL.**
The REC (Recording Timer) indicator goes off from the display.
The Recording Timer is canceled, but the setting for the Recording Timer remains in memory.

DEMO
CANCEL

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

SET

www.DataSheet4U.com

Using Sleep Timer

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

How Sleep Timer actually works
The unit automatically turns off after the specified time length passes.

On the remote control ONLY:

1 Press SLEEP.
The time length until the shut-off time appears and the SLEEP indicator starts flashing on the display.
• Each time you press the button, the time length changes as follows:

SLEEP

┌→10→20→30→60→90→120┐
└─────── Canceled ←───────┘

2 Wait for about 5 seconds after specifying the time length.
The SLEEP indicator stops flashing and remains lit.

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

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

To cancel the setting, press SLEEP repeatedly so that the SLEEP indicator goes off.
• Sleep Timer is also canceled when you turn off the unit.

Timer Priority

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

• **Recording Timer has priority over Daily Timer and Sleep Timer.**
If Daily Timer is set to come on while Recording Timer is operating, Daily Timer will not come on at all.

AM 6:00   6:30   7:00   7:30

Recording Timer

Daily Timer
└ does not work.

If Recording Timer is set to come on while Sleep Timer is operating, Sleep Timer will not work (the SLEEP indicator does not go off).

AM 6:00   6:30   7:00   7:30

Recording Timer

Sleep Timer
└ does not work.

– 22 –

Maintenance

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

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.

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

Handling cassette tapes

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

- Be careful not to touch the tape surface.

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

Troubleshooting

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

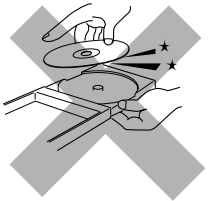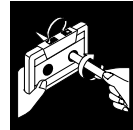| Symptom	Cause	Action
No sound is heard.	Connections are incorrect or loose.	Check all connections and make corrections. (See pages 6 to 8.)
Hard to listen to broadcasts because of noise.	• Antennas are disconnected. • The AM loop antenna is too close to the unit. • The FM antenna is not properly extended and positioned.	• Reconnect the antennas correctly and securely. • Change the position and direction of the AM loop antenna. • Extend the FM antenna at the best position.
The disc sound is discontinuous.	The disc is scratched or dirty.	Clean or replace the disc. (See above.)
The disc tray does not open or close.	• The AC power cord is not plugged in. • Trays are locked.	• Plug the AC power cord. • Unlock the trays. (See page 15.)
The disc does not play.	The disc is placed upside down.	Place the disc with the label side up.
The cassette holders cannot be opened.	Power supply from the AC power cord has been cut off while the tape was running.	Turn on the unit.
Impossible to record.	Small tabs on the back of the cassette are removed.	Cover the holes with adhesive tape.
Operations are disabled.	The built-in microprocessor may malfunction due to external electrical interference.	Unplug the AC power cord and then plug it back in.
Unable to operate the unit from the remote control.	• The path between the remote control and the remote sensor on the unit is blocked. • The batteries are exhausted.	• Remove the obstruction. • Replace the batteries.

Specifications

MX-J700

Amplifier section — CA-MXJ700

Output Power

SUBWOOFERS: 100 W per channel, min. RMS, driven into 6 Ω at 63 Hz with no more than 10% total harmonic distortion.

MAIN SPEAKERS: 50 W per channel, min. RMS, driven into 6 Ω at 1 kHz with no more than 10% total harmonic distortion.

Audio input sensitivity/Impedance
(at 1 kHz, measured at MAIN SPEAKERS)
AUX: 590 mV/50 kΩ

Digital output: CD OPTICAL DIGITAL OUTPUT
Signal wave length: 660 nm
Output level: –15 dBm to –12 dBm

Speakers/Impedance: 6 Ω – 16 Ω

Tuner

FM tuning range: 87.5 MHz – 108.0 MHz
AM tuning range: 530 kHz – 1,710 kHz

CD player

CD Capacity: 3 CDs
Dynamic range: 85 dB
Signal-to-noise ratio: 90 dB
Wow and flutter: Immeasurable

Cassette deck

Frequency response
Normal (type I):   50 Hz — 14,000 Hz
CrO$_2$ (type II):   50 Hz — 14,000 Hz
Metal (type IV): 50 Hz — 14,000 Hz (only for playback)
Wow and flutter
0.15% (WRMS)

General

Power requirement: AC 120 V ∿, 60 Hz
Power consumption: 155 W / 200 VA (at operation)
17 W (on standby)
Dimensions (approx.): 265 mm x 335 mm x 368 mm (W/H/D)
(10 $^7/_{16}$ in. x 13 $^1/_4$ in. x 14 $^1/_2$ in.)
Mass (approx.):   9.9 kg (21.8 lbs)

Supplied accessories

See page 6.

Speaker section — SP-MXJ700

Type: 4-way bass-reflex type
Twin Hyper Power-Drive Subwoofer
Speaker units: Subwoofer: 16 cm (6 $^5/_{16}$ in.) cone x1
Main Woofer: 16 cm (6 $^5/_{16}$ in.) cone x1
Midrange: 5 cm (2 in.) cone x1
Tweeter: 2 cm ($^{13}/_{16}$ in.) dome x1
Power handling capacity:
Subwoofer: 100 W
Main speaker: 50 W
Impedance: Subwoofer: 6 Ω
Main speaker: 6 Ω
Frequency range: Subwoofer: 26 Hz — 3,500 Hz
Main speaker: 70 Hz — 29,000 Hz
Sound pressure level: Subwoofer: 75 dB/W•m
Main speaker: 88 dB/W•m
Dimensions (approx.): 286 mm x 335 mm x 365 mm (W/H/D)
(11 $^5/_{16}$ in. x 13 $^1/_4$ in. x 14 $^3/_8$ in.)
Mass (approx.):   6.3 kg (13.9 lbs) each

MX-J500

Amplifier section — CA-MXJ500

Output Power

120 W per channel, min. RMS, driven into 6 Ω at 1 kHz with no more than 10% total harmonic distortion.

Audio input sensitivity/Impedance (at 1 kHz)
AUX: 580 mV/50 kΩ

Digital output: CD OPTICAL DIGITAL OUTPUT
Signal wave length: 660 nm
Output level: –15 dBm to –12 dBm

Speakers/Impedance: 6 Ω – 16 Ω

Tuner

FM tuning range: 87.5 MHz – 108.0 MHz
AM tuning range: 530 kHz – 1,710 kHz

CD player

CD Capacity: 3 CDs
Dynamic range: 85 dB
Signal-to-noise ratio: 90 dB
Wow and flutter: Immeasurable

Cassette deck

Frequency response
Normal (type I):   50 Hz — 14,000 Hz
CrO$_2$ (type II):   50 Hz — 14,000 Hz
Metal (type IV): 50 Hz — 14,000 Hz (only for playback)
Wow and flutter
0.15% (WRMS)

General

Power requirement: AC 120 V ∿, 60 Hz
Power consumption: 95 W / 125 VA (at operation)
14 W (on standby)
Dimensions (approx.): 265 mm x 335 mm x 368 mm (W/H/D)
(10 $^7/_{16}$ in. x 13 $^1/_4$ in. x 14 $^1/_2$ in.)
Mass (approx.):   9.7 kg (21.4 lbs)

Supplied accessories

See page 6.

Speaker section — SP-MXJ550

Type: 3-way bass-reflex type
Speaker units: Woofer: 16 cm (6 $^5/_{16}$ in.) cone x1
Midrange: 5 cm (2 in.) cone x1
Tweeter: 2 cm ($^{13}/_{16}$ in.) dome x1
Power handling capacity: 120 W
Impedance: 6 Ω
Frequency range: 45 Hz — 25,000 Hz
Sound pressure level: 86 dB/W•m
Dimensions (approx.): 235 mm x 335 mm x 270 mm (W/H/D)
(9 $^5/_{16}$ in. x 13 $^1/_4$ in. x 10 $^{11}/_{16}$ in.)
Mass (approx.):   3.7 kg (8.2 lbs) each

QUALITY **JVC** SERVICE

HOW TO LOCATE YOUR JVC SERVICE CENTER
TOLL FREE : 1-800-537-5722
http://www.jvcservice.com

Dear customer:
In order to receive the most satisfaction from your purchase, read the instruction booklet before operating the unit. In the event that repair is necessary, or for the address nearest your location, please refer to the factory service center list below or within the Continental United States, Call 1-800-537-5722 for your authorized servicer. Remember to retain your Bill of Sale for Warranty Service.

—JVC

JVC SERVICE & ENGINEERING
COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.

FACTORY SERVICE CENTER LOCATIONS

10 New Maple Avenue Pine Brook, NJ 07058-9641 (973) 396-1000	1500 Lakes Parkway Lawrenceville, GA 30243-5857 (770) 339-2582	705 Enterprise Street Aurora, IL 60504-8149 (630) 851-7855
5665 Corporate Avenue Cypress, CA 90630-0024 (714) 229-8011	2969 Mapunapuna Place Honolulu, HI 96819-2040 (808) 833-5828	10700 Hammerly, Suite 110 Houston, TX 77043 (713) 935-9331
13 Cummings Park Woburn, MA 01801 (781) 376-9100	8192 State Road 84 Davie, FL 33324 (954) 472-1960	890 Dubuque Avenue South San Francisco, CA 94080-1804 (650) 871-2666

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is the key to maintaining the high level of performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

NATIONAL HEADQUARTERS
JVC SERVICE & ENGINEERING COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
1700 Valley Road
Wayne, NJ 07470

If you ship the product • • •

Pack your JVC unit in the original carton or one of equivalent size and strength. Enclose, with the unit, a letter stating the problem or symptom that exists and also a copy of the receipt or bill of sale you received when you purchased your JVC unit. Print your home return address on the outside and the inside of the carton. Send to the appropriate JVC Factory Service Center as listed above.

Don't service it yourself.

CAUTION

To prevent electrical shock, do not open the cabinet. No user serviceable parts inside.
Refer servicing to qualified service personnel.

ACCESSORIES
To purchase accessories for your JVC product, you may contact your local JVC Dealer.
Or from the 48 Continental United States call toll free : 800-882-2345

JVC LIMITED WARRANTY   AUDIO-1

JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIAL AND WORKMANSHIP from the date of original retail purchase for the period as shown below. ("The Warranty Period.")

PARTS	LABOR
1YR	1YR

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY(50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:
    If this product is found to be defective, JVC will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products and parts thereof may be brought to a JVC authorized service center on a carry-in basis except for Television sets having a screen size 25 inches and above which are covered on an in-home basis.

WHAT YOU MUST DO FOR WARRANTY SERVICE:
    Return your product to a JVC authorized service center with a copy of your bill of sale. For your nearest JVC authorized service center, please call toll free: (800)537-5722.
    If service is not available locally, box the product carefully, preferably in the original carton, and ship, insured, with a copy of your bill of sale plus and letter of explanation of the problem to the nearest JVC Factory Service Center, the name and location of which will be given to you by the toll-free number.
    If you have any questions concerning your JVC Product, please contact our Customer Relations Department.

WHAT IS NOT COVERED:
    This limited warranty provided by JVC does not cover:
1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model number or serial number has been altered, tampered with, defaced or removed;

2. Initial installation and installation and removal for repair;

3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;

4. Damage that occurs in shipment, due to act of God, and cosmetic damage;

5. Signal reception problems and failures due to line power surge;

6. Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus(Needle) are covered for 90 days from the date of purchase;

7. Accessories;

8. Batteries (except the Rechargeable Batteries are covered for 90 days from the date of purchase);

There are no express warranties except as listed above.

    THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

    JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

    Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty last, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

JVC COMPANY OF AMERICA   1700 Valley Road
DIVISION OF JVC AMERICAS CORP.   Wayne, NJ 07470

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAILS OF REFURBISHED PRO DUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.
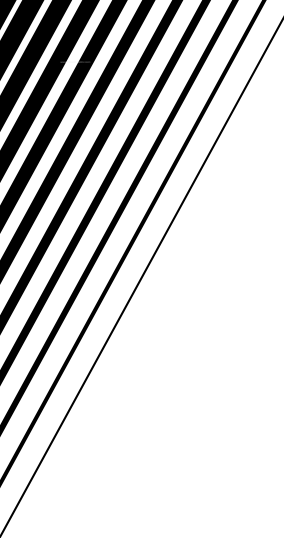
For customer use:

    Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.
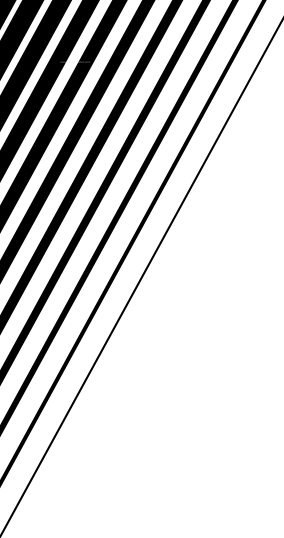
Model No.: _____   Serial No.: _____

Purchase date: _____   Name of dealer: _____

JVC

VICTOR COMPANY OF JAPAN, LIMITED

JVC

VICTOR COMPANY OF JAPAN, LIMITED

JVC

COMPACT COMPONENT SYSTEM
SISTEMAS DE COMPONENTES COMPACTOS
SISTEMA DE COMPONENTE COMPACTO
小型組和系統
نظام اجهزة صوتية مركبة

MX-J500

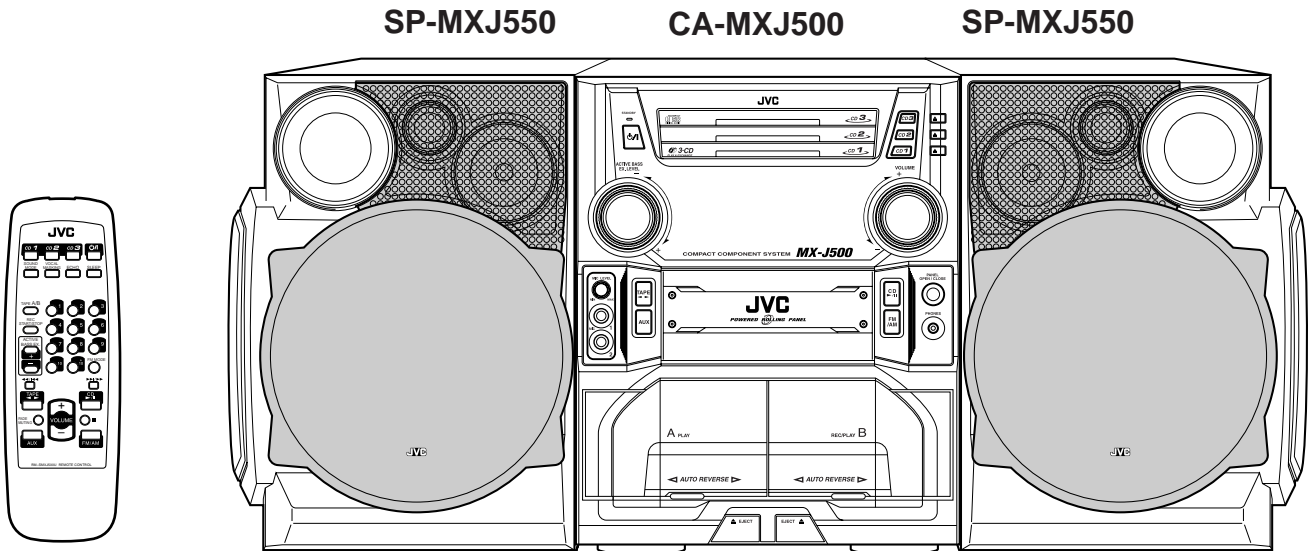**Consists of CA-MXJ500 and SP-MXJ550**
Consta del CA-MXJ500 el SP-MXJ550
Consta do CA-MXJ500 e SP-MXJ550
由 CA-MXJ500 及SP-MXJ550組成
SP-MXJ550 و CA-MXJ500 يتكون الجهاز مز

COMPACT
disc
DIGITAL AUDIO

SP-MXJ550   CA-MXJ500   SP-MXJ550

INSTRUCTIONS
MANUAL DE INSTRUCCIONES
INSTRUÇÕES
使用說明書
كتيّب تعليمات التشغيل

GVT0029-003A
[U, US, UT, UX]

Warnings, Cautions and Others
Avisos, precauciones y otras notas
Advertências, precauções e outras notas
警告，注意及其他須知事項
تحذيرات، تنبيهات وأشياء أخرى

Caution — ⏻/l switch!

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

Precaución — Interruptor ⏻/l!

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

Precaução — Interruptor ⏻/l!

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

注意一⏻/l 開關！

無論⏻/l開關在任何位置，電源線的電源還是沒有被切斷，若要將電源完全關閉，應把電源插頭拔離插座。電源開關可用遙控器控制。

تحذير – ⏻/l الطاقة

انزع قابس الطاقة الكهربائية من اجل فصل الطاقة الكهربائية عن الجهاز كليا. لا يفصل مفتاح الطاقة الكهربائية عندما يكون باي وضع l/⏻ الطاقة الكهربائية عن الجهاز. يمكن التحكم عن بعد بالطاقة الكهربائية.

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, los 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.

警告

為了減低觸電，火災等危險：
1. 請勿擅自卸下螺絲釘，蓋子或機殼。
2. 切勿讓本機受雨淋或置潮濕環境中。

<div dir="rtl">

تحذير

لتجنب خطر الحريق، الصدمات الكهربائية، الخ.:
١. لا تقم بفك البراغي، الاغطية أو الخزانة.
٢. لا تقم بتعريض هذا الجهاز للمطر أو للرطوبة.

</div>

Caution: Proper Ventilation

To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:
1 Front: No obstructions and open spacing.
2 Sides/ Top/ Back: No obstructions should be placed in the areas shown by the dimensions below.
3 Bottom: Place on the level surface. Maintain an adequate air path for ventilation by placing on a stand
                    with a height of 10 cm or more.

Precaución: el aparato debe estar bien ventilado

Para evitar posibles riesgos de descargas eléctricas e incendios y prevenir cualquier posible daño, coloque el aparato del modo siguiente:
1 Parte delantera: No ponga nada delante, deje el espacio libre.
2 Laterales/ parte superior/ parte trasera: No se debería colocar nada en las áreas y las distancias que se
                    detallan a continuación.
3 Parte inferior: Coloque el aparato sobre una superficie recta. Debe haber buena circulación de aire; para
                    ello, coloque el aparato sobre una base a una altura mínima de 10 cm.

Precaução: Ventilação adequada

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

告誡：正確通風

為免發生觸電和火警的危險，及防止本機受損，請將本機如下放置：

1 前面：　沒有障物及地方開闊。

2 側面／頂面／背面：　在圖中所示範圍中，不應放置任何障礙物。

3 底部：　放置在水平面上。放置在一個高 10 厘米或以上的臺上，以保持足夠的通風道。

تحذير: التهوية الصحيحة
لتجنّب حصول صدمات كهربائية واخطار الحريق ومنع حصول تلف وضرر للجهاز، ركّب الجهاز كما يلي:
١ الجهة الامامية:　يجب ان لا يكون هنالك عوائق ويجب ان تكون المنطقة مفتوحة امام الجهاز.
٢ الجهات الجانبية / العلوية / الخلفية: يجب عدم وضع عوائق في المناطق المبينة بالابعاد في الاسفل.
٣ القاعدة: يجب وضع الجهاز على سطح منبسط. اترك مسافة كافية من اجل التهوية بواسطة وضع الجهاز على حامل
بارتفاع ١٠ سم او اكثر.
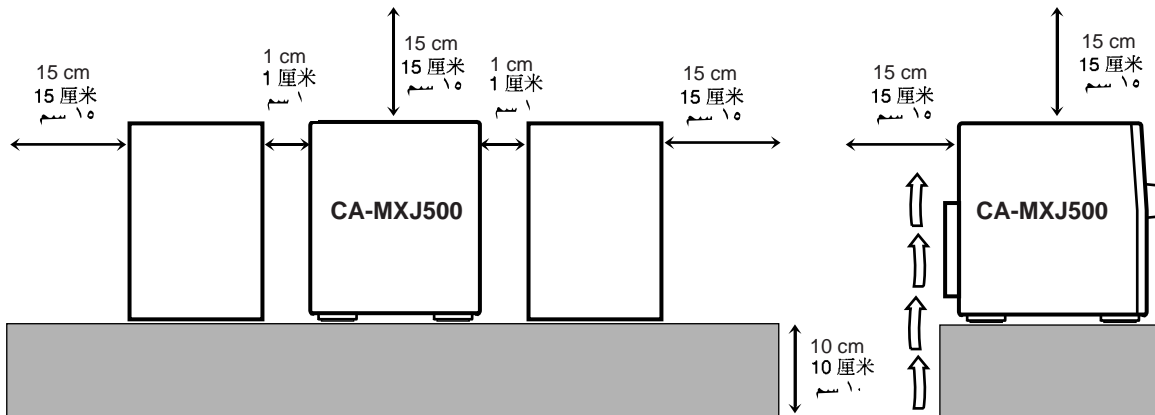
IMPORTANT FOR LASER PRODUCTS / IMPORTANTE PARA PRODUCTOS LÁSER / IMPOTANTE PARA PRODUTOS LASER / 雷射產品的重要説明 / مهم للمنتجات الليزرية
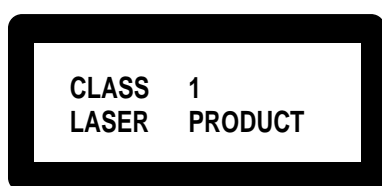

REPRODUCTION OF LABELS / REPRODUCCIÓN DE ETIQUETAS / REPRODUÇÃO DE ETIQUETAS
標簽內容説明 / إنتاج اللاصقات

① CLASSIFICATION LABEL, PLACED ON REAR ENCLOSURE

① ETIQUETA DE CLASIFICACIÓN, PEGADA EN LA PARTE POSTERIOR DE LA CAJA

① ETIQUETA DE CLASSIFICAÇÃO LOCALIZADA NA PARTE POSTERIOR DA CAIXA DO APARELHO.

① 分類標簽，貼在機殼背後。

① لاصق التصنيف، موضوعة على المرفق الخلفي

② WARNING LABEL, PLACED INSIDE THE UNIT

② ETIQUETA DE ADVERTENCIA, PEGADA EN EL INTERIOR DE LA UNIDAD

② ETIQUETA DE ADVERTÊNCIA LOCALIZADA NA PARTE INTERNA DA UNIDADE.

② 警告標簽，貼於機內。

② لاصقة التحذير، موضوع بداخل الجهاز

```
CLASS    1
LASER    PRODUCT
```

DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	**VARNING:** Osynlig laser-strålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)	**ADVARSEL:** Usynlig laser-stråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (d)	**VARO:** Avattaessa ja suo-jalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)

---

1. CLASS 1 LASER PRODUCT
2. **DANGER**: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION**: Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.
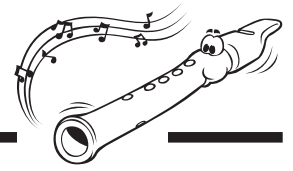
1. PRODUCTO LÁSER CLASE 1
2. **PELIGRO**: En el interior hay radiación láser invisible. Evite el contacto directo con el haz.
3. **PRECAUCIÓN**: No abra la tapa superior. En el interior de la unidad no existen piezas reparables por el usuario; deje todo servicio técnico en manos de personal calificado.

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

1. 一級雷射產品
2. **危險**：當內部鎖定裝置失效或者損壞後，打開蓋板可能會產生不可見的雷射幅射。應避免受到光束直接照射。
3. **注意**：請勿打開頂蓋板。本機內部沒有用戶可自行維修的部件；所有維修工作應由有資格的人員完成。

١. صنف ١ منتج ليزري
٢. **خطر**: أشعة ليزرية غير مرئية عند الفتح والأغلاق الفاشل أو غير الصحيح. تجنب التعرض المباشر للاشعة.
٣. **تحذير**: لا تفتح الغطاء العلوي ليس في داخل الجهاز آقسام بمستطاع المستخدم صيانتها؛ إعهد بكافة الأعمال الصيانية لفني مختص.

Introduction

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

About This Manual

This manual is organized as follows:

• **The manual mainly explains operations using the
buttons and controls on the unit. You can also use the
buttons on the remote control if they have the same or
similar names (or marks) as those on the unit.
If operation using the remote control is different from
that using the unit, it is then explained.**

• Basic and common information that is the same for many
functions is grouped in one place, and is not repeated in
each procedure. For instance, we do not repeat the
information about turning on/off the unit, setting the
volume, changing the sound effects, and others, which are
explained in the section "Common Operations" on pages 9
to 11.

• The following marks are used in this manual:

Gives you warnings and cautions to prevent
damage or risk of fire/electric shock.
Also gives you information which is not good
for obtaining the best possible performance
from the unit.

Gives you information and hints you had better
know.

Precautions

Installation

• Install in a place which is level, dry and neither too hot nor
too cold — between 5˚C (41˚F) and 35˚C (95˚F).

• Install the unit in a location with adequate ventilation to
prevent internal heat built-up in the unit.

• Leave sufficient distance between the unit and the TV.

• Keep the speakers away from the TV to avoid interference
with TV.

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

Power sources

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

DO NOT handle the AC power cord with wet
hands.

Moisture condensation

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

• After starting heating in the room

• In a damp room

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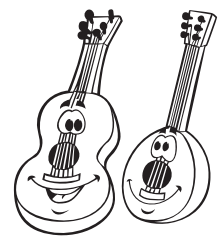evaporates, unplug the AC power cord, and then plug it in
again.

Others

• Should any metallic object or liquid fall into the unit,
unplug the unit and consult your dealer before operating
any further.

• If you are not going to operate the unit for an extended
period of time, unplug the AC power cord from the wall
outlet.

DO NOT disassemble the unit since there are no
user serviceable parts inside.

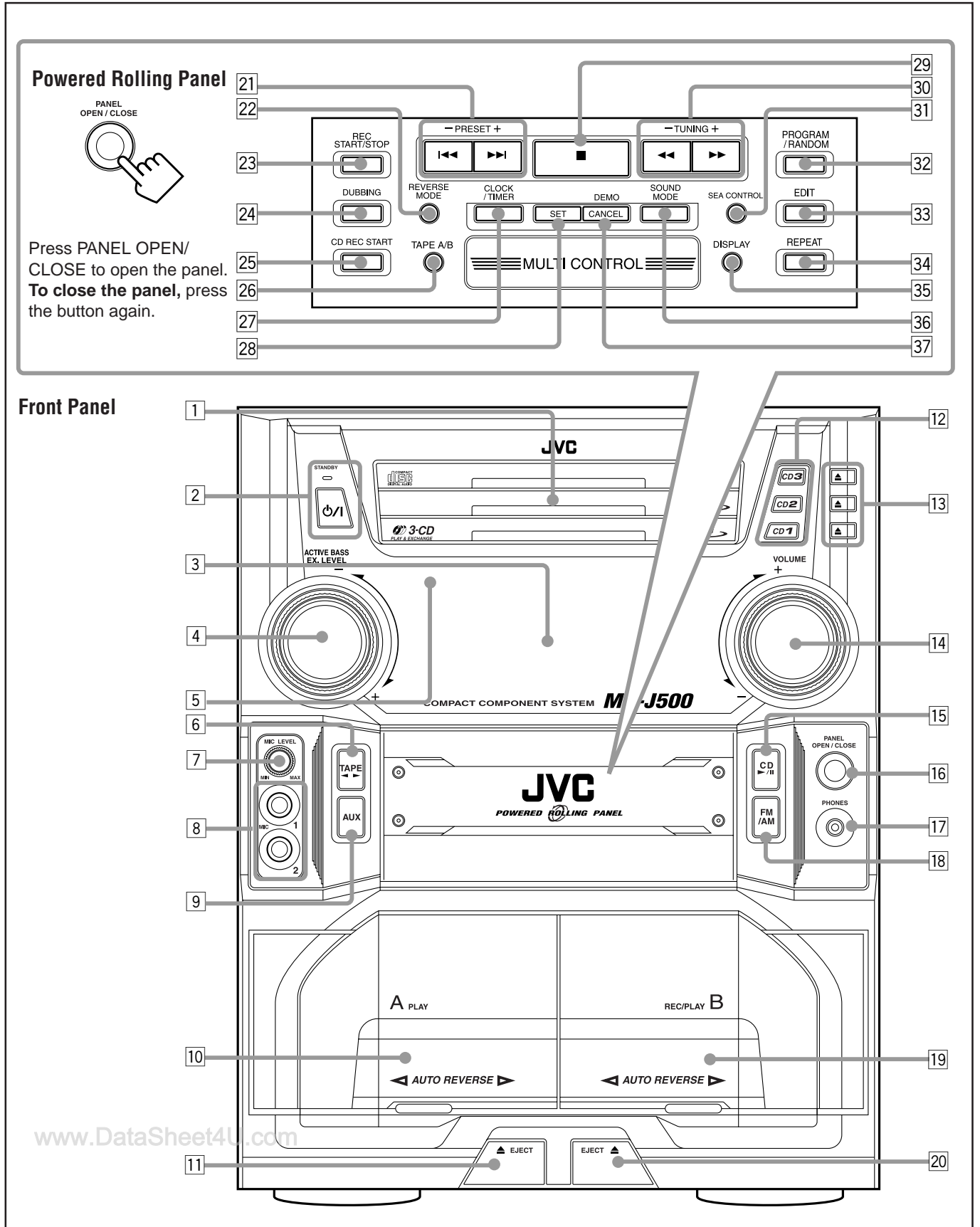If anything goes wrong, unplug the AC power cord and
consult your dealer.

– 1 –

Contents

English

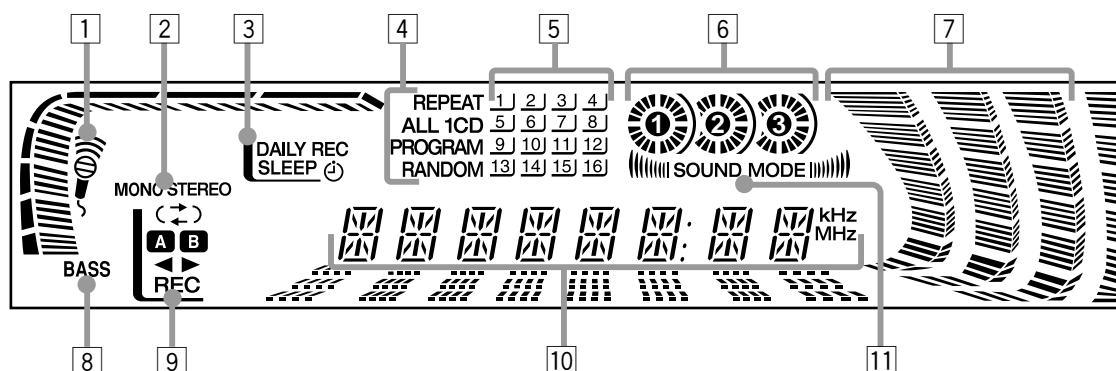# Location of the Buttons and Controls

Become familiar with the buttons and controls on your unit.

Front Panel

Powered Rolling Panel

PANEL
OPEN / CLOSE

Press PANEL OPEN/
CLOSE to open the panel.
To close the panel, press
the button again.

21
22
23 REC START/STOP
24 DUBBING
25 CD REC START
26
27
28

REVERSE MODE

TAPE A/B

— PRESET +
|◀◀ ▶▶|

CLOCK /TIMER

SET

MULTI CONTROL

DEMO
CANCEL

SOUND MODE

SEA CONTROL

29
30
31

— TUNING +
◀◀ ▶▶

PROGRAM / RANDOM   32

EDIT   33

DISPLAY

REPEAT   34

35
36
37

Front Panel

1
2 STANDBY ⏻/|
3 ACTIVE BASS EX. LEVEL
4
5
6
7 MIC LEVEL MIN MAX
8 MIC 1 2
9 TAPE AUX

JVC

3-CD
PLAY & EXCHANGE

COMPACT COMPONENT SYSTEM M -J500

JVC
POWERED ROLLING PANEL

CD3
CD2
CD1

VOLUME
+
—

PANEL OPEN / CLOSE

CD ▶/||

FM /AM

PHONES

12
13
14
15
16
17
18

A PLAY

REC/PLAY B

◀ AUTO REVERSE ▶

◀ AUTO REVERSE ▶

10
11 ▲ EJECT

EJECT ▲

19
20

– 3 –

Display Window

See pages in the parentheses for details.

Front Panel
1 Disc trays
2 ⏻/| (Standby/On) button and STANDBY lamp (9)
3 Display window
4 ACTIVE BASS EX. (extension) LEVEL control (10)
5 Remote sensor
6 TAPE ◄ ► button and lamp (9, 16)
   Pressing this button also turns on the unit.
7 MIC LEVEL control (20)
8 MIC 1 and MIC 2 jacks (20)
9 AUX button and lamp (9)
   Pressing this button also turns on the unit.
10 Deck A cassette holder (16)
11 ⏏ EJECT button for deck A (16)
12 Disc number buttons (CD1, CD2, and CD3) (13)
   Pressing one of these buttons also turns on the unit.
13 ⏏ (CD tray open/close) buttons (13)
   Pressing one of these buttons also turns on the unit.
14 VOLUME control (10)
15 CD ►/‖ (play/pause) button and lamp (9, 13)
   Pressing this button also turns on the unit.
16 PANEL OPEN/CLOSE button (9)
   Pressing this button also turns on the unit.
17 PHONES jack (10)
18 FM/AM button and lamp (9, 12)
   Pressing this button also turns on the unit.
19 Deck B cassette holder (16, 17)
20 EJECT ⏏ button for deck B (16, 17)

Powered Rolling Panel
21 PRESET – / + buttons (12)
   I◄◄ / ►►I (reverse search/forward search) buttons
   (9, 11, 14, 19, 21 – 23)
22 REVERSE MODE button (16 – 19)
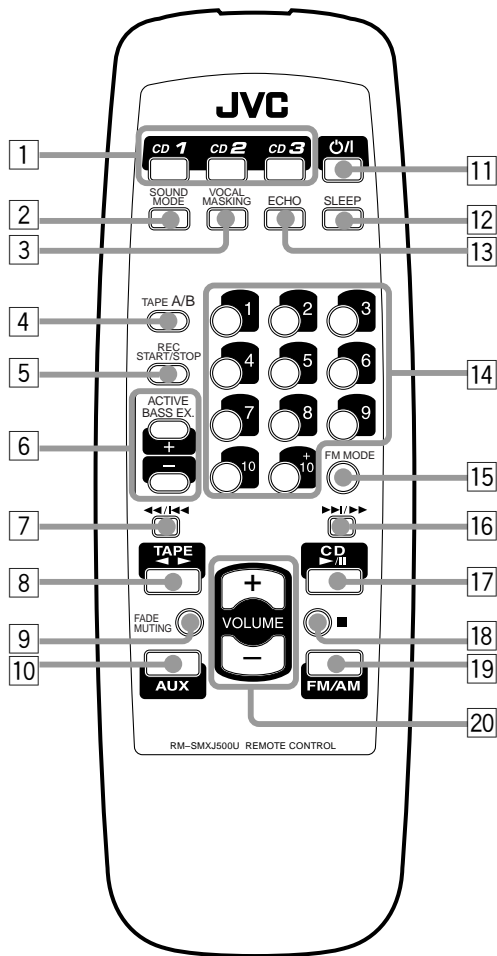23 REC START/STOP button (17, 19)
24 DUBBING button (18)

25 CD REC START button (18, 19)
26 TAPE A/B button (16)
27 CLOCK/TIMER button (9, 21 – 23)
28 SET button (9, 12, 21 – 23)
29 ■ (stop) button (13 – 19)
30 TUNING – / + buttons (12)
   ◄◄ / ►► (fast left/fast right) buttons (11, 14, 16)
31 SEA CONTROL button (11)
32 PROGRAM/RANDOM button (14, 15, 18)
33 EDIT button (19)
34 REPEAT button (15)
35 DISPLAY button (9)
36 SOUND MODE button (10)
37 CANCEL button (9, 15, 21)
   DEMO button (8)

Display window
1 Karaoke (🎤) and echo (≋) indicators
2 Tuner operation indicators
   • MONO and STEREO indicators
3 Timer indicators
   • DAILY (Daily Timer), REC (Recording Timer), SLEEP,
   and ⏲ (Timer) indicators
4 CD play mode indicators
   • REPEAT (ALL/1CD/1), PROGRAM, and RANDOM
   indicators
5 CD track number indicators
6 Disc indicators
7 SEA (Sound Effect Amplifier) pattern indicator
8 BASS indicator (10)
9 Tape operation indicators
   • (↻) (reverse mode), A/B (operating deck), ◄ ► (tape
   direction), and REC (recording) indicators
10 Main display
   • Shows the source name, frequency, etc.
11 SOUND MODE indicator

– 4 –

Remote Control

RM–SMXJ500U REMOTE CONTROL

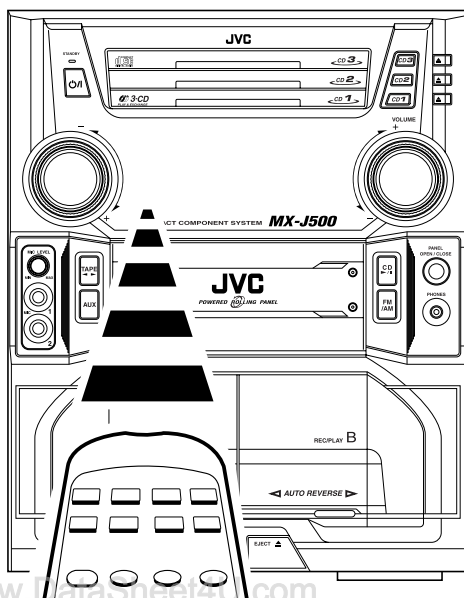When using the remote control, point it at
the remote sensor on the front panel.

Remote Control

1 Disc number buttons (CD1, CD2, and CD3) (13)
   Pressing one of these buttons also turns on the unit.
2 SOUND MODE button (10)
3 VOCAL MASKING button (20)
4 TAPE A/B button (16)
5 REC START/STOP button (17, 19)
6 ACTIVE BASS EX. (extension) + / – buttons (10)
7 ◄◄ / I◄◄ (fast left/reverse search) button (14 – 16)
8 TAPE ◄ ► button (9, 16)
   Pressing this button also turns on the unit.
9 FADE MUTING button (10)
10 AUX button (9)
   Pressing this button also turns on the unit.
11 ⏻/I (Standby/On) button (9)
12 SLEEP button (23)
13 ECHO button (20)
14 Number buttons (12, 14)
15 FM MODE button (12)
16 ►►I / ►► (forward search/fast right) button (14 – 16)
17 CD ►/II button (9, 13)
   Pressing this button also turns on the unit.
18 ■ (stop) button (13 – 19)
19 FM/AM button (9, 12)
   Pressing this button also turns on the unit.
20 VOLUME + / – buttons (10)

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Getting Started

Unpacking

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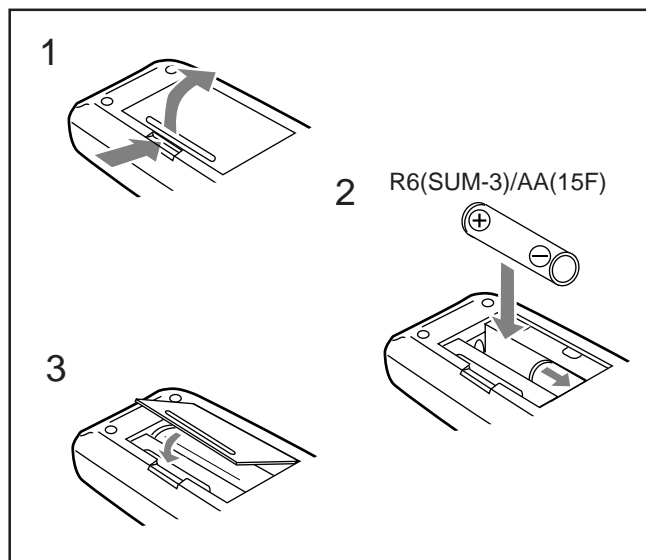The number in the parentheses indicates the quantity of the pieces supplied.

• AM loop antenna (1)
• FM antenna (1)
• Remote control (1)
• Batteries (2)
• AC plug adaptor (except for Argentina: 1)

If any is missing, consult your dealer immediately.

Putting the Batteries into the Remote Control

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

2 R6(SUM-3)/AA(15F)

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

Connecting Antennas

FM antenna

FM antenna (supplied)

1 Attach the FM antenna to the FM 75 Ω COAXIAL terminal.

2 Extend the FM antenna.

3 Fasten it up in the position which gives you the best reception, then fix it on the wall, etc.
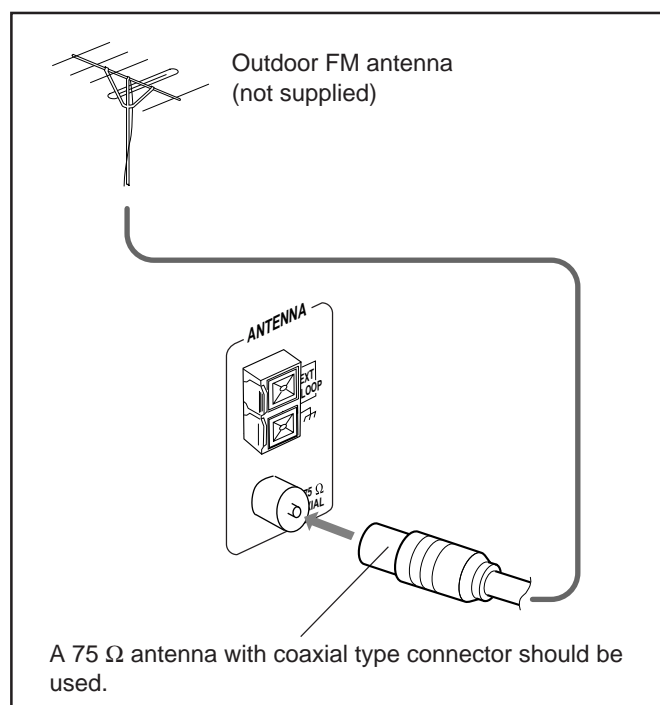
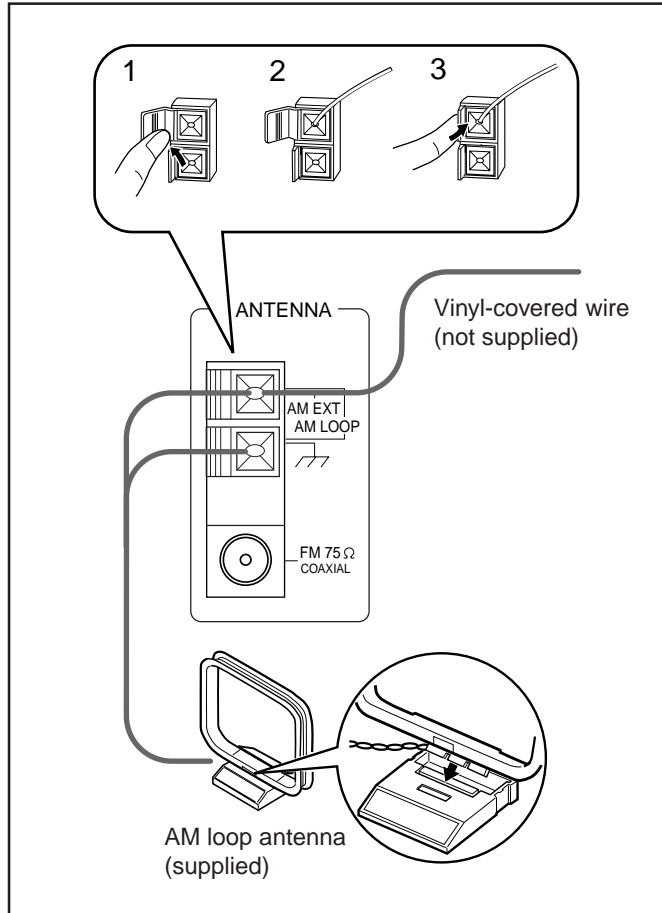**notes**
About the supplied FM antenna
The FM antenna supplied with this unit can be used as temporary measure. If reception is poor, you can connect an outdoor FM antenna.

To connect an outdoor FM antenna
Before connecting it, disconnect the supplied FM antenna.

Outdoor FM antenna (not supplied)

A 75 Ω antenna with coaxial type connector should be used.

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AM antenna

ANTENNA

AM EXT
AM LOOP

Vinyl-covered wire
(not supplied)

FM 75 Ω
COAXIAL

AM loop antenna
(supplied)

1 **Connect the AM loop antenna to the AM LOOP terminals as illustrated.**

2 **Turn the AM loop antenna until you have the best reception.**
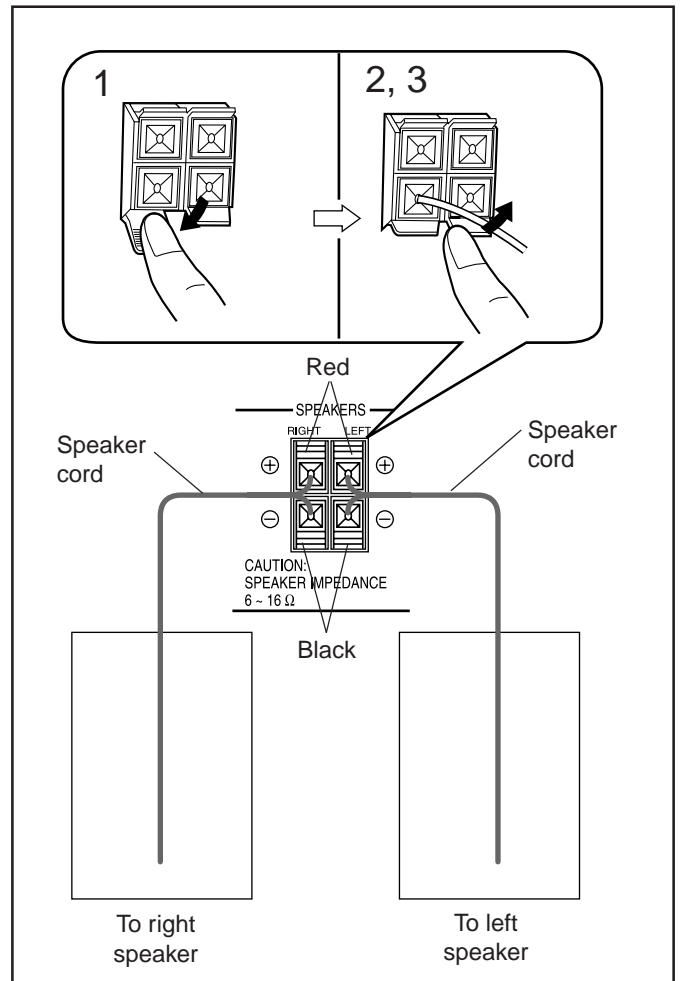
To connect an outdoor AM antenna

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

notes   **For better reception of both FM and AM**

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

Connecting Speakers

Red

SPEAKERS
RIGHT   LEFT

Speaker
cord

Speaker
cord

CAUTION:
SPEAKER IMPEDANCE
6 ~ 16 Ω

Black

To right
speaker

To left
speaker

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

2 **Insert the end of the speaker cord into the terminal.**
Match the polarity (color) of the speaker terminals: ⊕ to ⊕ and ⊖ to ⊖.

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

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

Connecting Other Equipment

You can connect both analog and digital equipment.

> ⚠️ **STOP!**
> - DO NOT connect any equipment while the power is on.
> - DO NOT plug in any equipment until all connections are complete.

To connect an analog component

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

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

Adjusting the Voltage Selector

Before plugging in the unit, set the correct voltage for your area with the voltage selector on the rear of the unit.
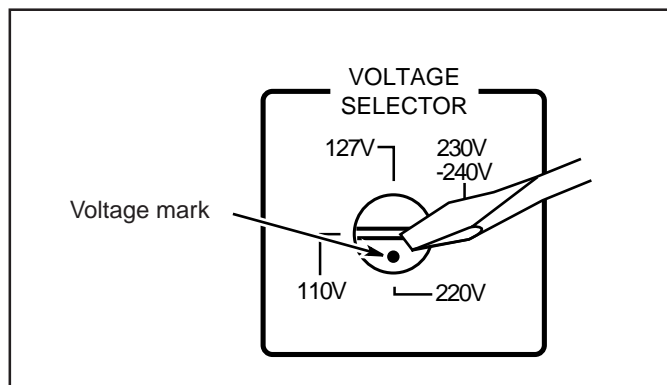
Use a screwdriver to rotate the voltage selector so the voltage number the voltage mark is pointing at is the same as the voltage where you are plugging in the unit. (See the back cover page.)

> ⚠️ **STOP!**
> - DO NOT plug in before setting the voltage selector on the rear of the unit and all connection procedures are complete.

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

When connecting the AC power cord into a wall outlet, the unit automatically starts display demonstration.
- If the wall outlet does not match the AC plug, use the supplied AC plug adaptor (except for Argentina).

To stop the display demonstration, press any button on the unit or on the remote control.

> **To start the display demonstration manually**
> **Press and hold DEMO for more than 2 seconds.**
>
>
>
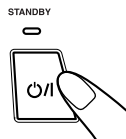> **To stop the demonstration,** press any button.

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Common Operations

Turning On and Off the Power

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

WELCOME

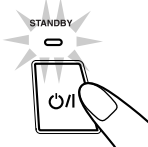The Powered Rolling Panel opens automatically.

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

GOOD BYE

The Powered Rolling Panel also closes.
A little power is always consumed even while the unit is on standby.

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

notes **When you unplug the AC power cord or if a power failure occurs**
The clock is reset to "0:00" right away, while the tuner preset stations (see page 12) will be erased in a few days.

Setting the Clock

Before operating the unit any further, first set the clock built in this unit.

On the unit ONLY:

1 Press PANEL OPEN/CLOSE.
The unit is turned on and the Powered Rolling Panel opens automatically.

2 Press CLOCK/TIMER.

0:00

The hour digits start flashing on the display.
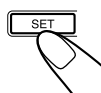
3 Press |◄◄ or ►►| to adjust the hour, then press SET.

19:00

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

4 Press |◄◄ or ►►| to adjust the minute, then press SET.

www.DataSheet4U.com *CLOCK OK*

To check the clock time

Press DISPLAY while playing any source.
• Each time you press the button, the source indication and the clock time alternate on the display.
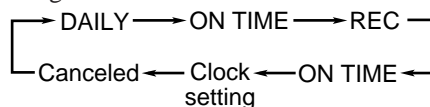
To adjust the clock again

If you have adjusted the clock before, you need to press CLOCK/TIMER repeatedly until the clock setting mode is selected.
• Each time you press the button, the clock/timer setting modes change as follows:

→ DAILY → ON TIME → REC ┐
Canceled ← Clock ← ON TIME ←
setting
(The hour digits start flashing.)

notes **If there is a power failure**
The clock loses the setting and is reset to "0:00." You need to set the clock again.

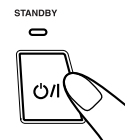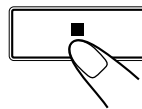## Setting the AM Tuner Interval Spacing

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

On the unit ONLY:

You can only change the AM tuner interval spacing while tuning into an AM station.

Press ⏻/| while holding down ■.
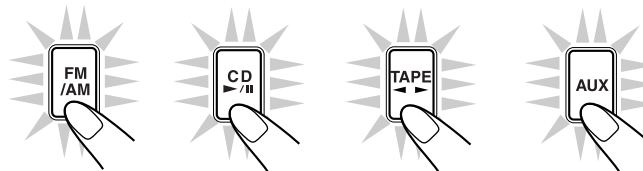• Each time you press the button, the AM tuner interval spacing alternates between 9 kHz and 10 kHz.

Selecting the Sources

To listen to the FM/AM broadcasts, press FM/AM. (See page 12.)
To play back CDs, press CD ►/II. (See pages 13 – 15.)
To play back tapes, press TAPE ◄ ►. (See page 16.)
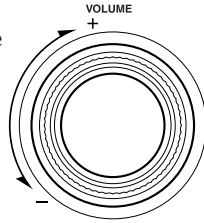**To select the external equipment as the source,** press AUX.

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

Adjusting the Volume

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

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

VOLUME
+
–

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

$$VOL \quad 15$$

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

notes **For private listening**
Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers. Be sure to turn down the volume before connecting or putting on headphones.

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

To turn down the volume level temporarily

Press FADE MUTING on the remote control. The volume level gradually decreases to "MIN." **To restore the sound,** press the button again.

FADE
MUTING

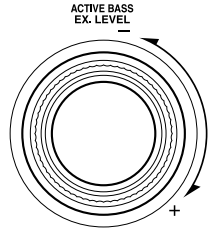## Reinforcing the Bass Sound

The ACTIVE BASS EX. (extension) LEVEL control provided for this unit can maintain the richness and fullness of the bass sound while listening to any source at low volume.
This function only affects the playback sound, but does not affect your recording.

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

ACTIVE BASS
EX. LEVEL
+

• The bass sound level can be adjusted in 4 steps (BASS 1 — BASS 3, and MAX).

BASS

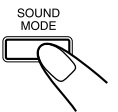$$BASS \quad 3$$

BASS indicator always lights up when the unit is on.

When using the remote control, press ACTIVE BASS EX. + to increase the bass sound level or press ACTIVE BASS EX. – to decrease it.

To cancel the Active Bass Extension, turn the control counterclockwise until "BASS OFF" appears.
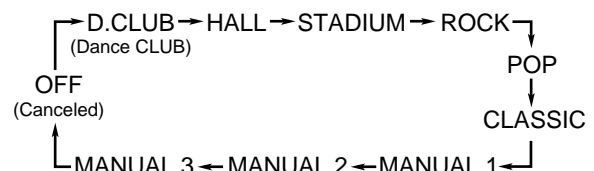
Selecting the Sound Modes

You can select one of the 6 preset sound modes (3 surround modes and 3 SEA — Sound Effect Amplifier — modes). This function only affects the playback sound, but does not affect your recording.
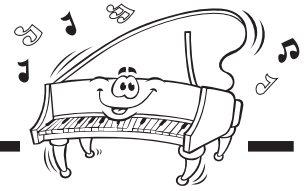
To select the sound modes, press SOUND MODE until the sound mode you want appears on the display. The SOUND MODE indicator also lights up on the display.

SOUND
MODE

$$D.CLUB$$

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

```
  ┌► D.CLUB ─► HALL ─► STADIUM ─► ROCK ┐
  │  (Dance CLUB)                       │
  │                                    POP
 OFF                                    │
(Canceled)                          CLASSIC
  └── MANUAL 3 ◄─ MANUAL 2 ◄─ MANUAL 1 ◄─┘
```

Surround modes *:
D.CLUB: Increases resonance and bass.
HALL: Adds depth and brilliance to the sound.
STADIUM: Adds clarity and spreads the sound, like in an outdoor stadium.

SEA (Sound Effect Amplifier) modes:
ROCK: Boosts low and high frequency. Good for acoustic music.
POP: Good for vocal music.
CLASSIC: Good for classical music.

Manual modes:
MANUAL 1/2/3:
Your individual mode stored in memory. See "Creating Your Own Sound Mode — Manual Mode."

OFF: Cancels the sound mode.

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

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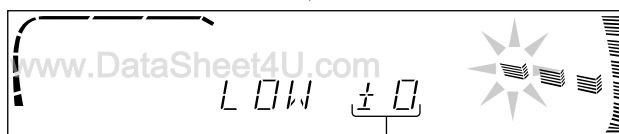it lights up as — SOUND MODE

Creating Your Own Sound Mode — Manual Mode

You can change SEA pattern to suit your preference. These changed settings can be stored in the MANUAL 1, 2, and 3 modes.

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

• **If you want to add the surround elements in your SEA pattern,** select one of the surround modes (D.CLUB, HALL, or STADIUM) before starting the procedure below.
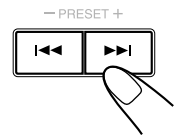
On the unit ONLY:

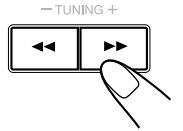**1** **Press and hold SEA CONTROL until "SEA CONT" appears on the display.**

SEA CONTROL

SEA CONT

LOW ±0

Current level appears.

2 **Adjust the SEA pattern.**

— PRESET +
|◄◄   ►►|

1) **Press |◄◄ or ►►| to select the frequency range to adjust (LOW, MID, HIGH).**

2) **Press ◄◄ or ►► to adjust the level (–3 to +3) of the selected frequency range.**

— TUNING +
◄◄   ►►

3) **Repeat steps 1) and 2) to adjust the level of the other frequency ranges.**

3 **Press SEA CONTROL again.**

SEA CONTROL

MANUAL 1

4 **Press |◄◄ or ►►| to select one of the MANUAL 1, 2, and 3 modes into which you want to store the SEA pattern.**

5 **Press SEA CONTROL again.**

SEA CONTROL

MEMORY

The SOUND MODE indicator also lights up.
The SEA pattern you have created are stored into the MANUAL mode selected in the above step.

To use your own sound mode
Select MANUAL 1, 2, or 3 mode when using the sound modes. See "Selecting the Sound Modes" on page 10.

– 11 –

Listening to FM and AM Broadcasts

Tuning in a Station

1 Press FM/AM.

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

• Each time you press the button, the band alternates between FM and AM.
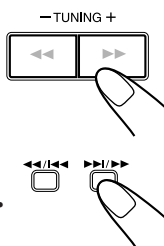
2 Start searching for stations.

On the unit:
Press and hold TUNING – / + for more than 1 second.
On the remote control:
Press and hold ◀◀ / I◀◀ or ▶▶I / ▶▶ for more than 1 second.

The unit starts searching for stations and stops when a station of sufficient signal strength is tuned in. If a program is broadcast in stereo, the STEREO indicator lights up.

To stop during searching, press TUNING – / + (or ◀◀ / I◀◀, ▶▶I / ▶▶).

When you press TUNING – / + (or ◀◀ / I◀◀, ▶▶I / ▶▶) briefly and repeatedly
The frequency changes step by step.

To change the FM reception mode

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

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

Presetting Stations

You can preset 30 FM and 15 AM stations.
In some cases, test frequencies have been already memorized for the tuner since the factory examined the tuner preset function before shipment. This is not a malfunction. You can preset the stations you want into memory by following the presetting method.

• There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
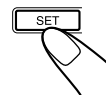
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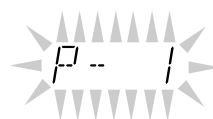## On the unit ONLY:

1 Tune in the station you want to preset.
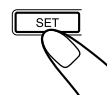
• See "Tuning in a Station."

FM 87.50 MHz

2 Press SET.

3 Press PRESET – / + to select a preset number.

P -- 1

4 Press SET again.

STORED

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

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

When you unplug the AC power cord or if a power failure occurs
The preset stations will be erased in a few days. If this happens, preset the stations again.

Tuning in a Preset Station

1 Press FM/AM.

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

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

2 Select a preset number.

On the unit:
Press PRESET – / +.
On the remote control:
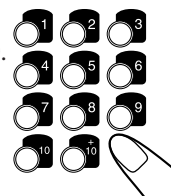**Press the number buttons.**

For preset number 5, press 5.
For preset number 15, press +10, then 5.
For preset number 20, press +10, then 10.
For preset number 25, press +10, +10, then 5.
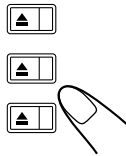For preset number 30, press +10, +10, then 10.
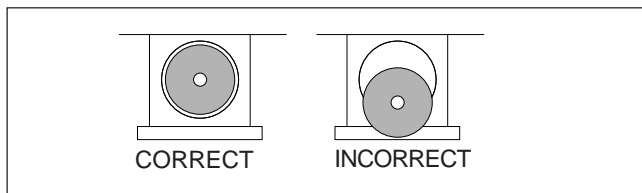
Playing Back CDs

Loading CDs

On the unit ONLY:

1 Press ▲ for the disc tray (CD1 to 3) you want to load a CD onto.
The unit automatically turns on and the disc tray comes out. The Powered Rolling Panel also opens automatically.
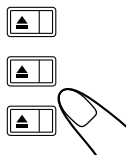
2 Place a disc correctly on the circle of the disc tray, with its label side up.

CORRECT   INCORRECT

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

3 Press the same ▲ you have pressed in step 1.
The disc tray closes, and the corresponding disc indicator (CD1 to CD3) lights up on the display.

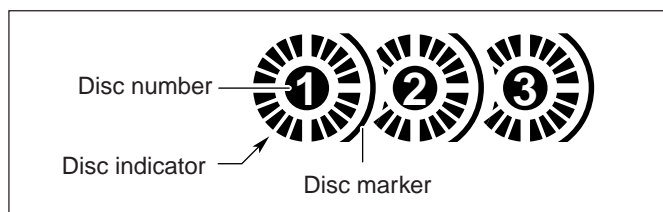**4 Repeat steps 1 to 3 to place other CDs.**

notes **When loading more than one CD continuously**
When you press ▲ for the next tray you want to place another CD onto, the first disc tray automatically closes and then the next tray comes out.

notes **About the disc indicators**
Each disc indicator corresponds to the disc tray of the same number.

Disc number
Disc indicator
Disc marker

- The disc marker lights up for the disc number you have selected.
- The disc indicator flashes while the corresponding CD is being played.
- The disc indicator goes off when the unit has detected that there is no CD on the corresponding disc tray.
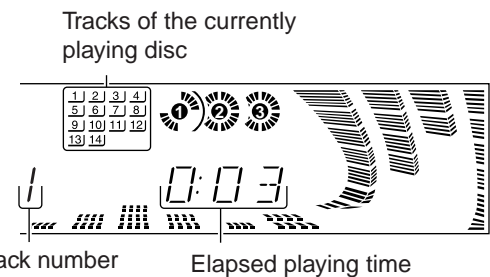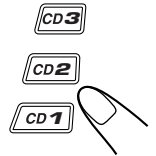
Playing Back the Entire Discs — Continuous Play

You can play CDs continuously.

1 Load CDs.

2 Press one of the disc number buttons (CD1, CD2, and CD3) for the disc you want to play.
CD play starts from the first track of the selected disc.

Tracks of the currently playing disc

Track number   Elapsed playing time

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

To stop during play, press ■.

To remove the disc, press ▲ for the corresponding disc tray.

notes **CD playback sequence**
When 3 CDs are loaded on the disc trays, they are played in one of the following sequences.
- When CD1 is pressed : CD1 ⇨ CD2 ⇨ CD3 (then stops)
- When CD2 is pressed : CD2 ⇨ CD3 ⇨ CD1 (then stops)
- When CD3 is pressed : CD3 ⇨ CD1 ⇨ CD2 (then stops)
* When only 2 CDs are loaded, they are played in the same order, but the disc tray without a CD is skipped.

Basic CD Operations

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

To exchange CDs during playback of another
Press ▲ corresponding to a CD, not playing or selected currently, to eject and exchange the CD.
If you exchange CDs during play, the current play will not stop until all CDs you have exchanged are played.

To stop play for a moment
Press CD ►/Ⅱ.
While pausing, the elapsed playing time flashes on the display.

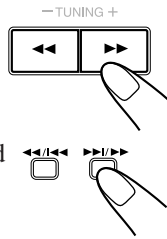**To resume play,** press CD ►/Ⅱ again.

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To locate a particular point in a track

During play, press and hold ◄◄ or ►►.
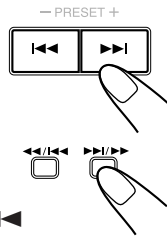- ◄◄: Fast reverses the disc.
- ►►: Fast forwards the disc.

When using the remote control, press and hold ◄◄ / I◄◄ or ►►I / ►►.

─ TUNING +

◄◄ ►►

◄◄/I◄◄ ►►I/►►

To go to another track

Press I◄◄ or ►►I repeatedly before or during playback.
- I◄◄: Goes back to the beginning of the current or previous tracks.
- ►►I: Skips to the beginning of the next or succeeding tracks.

When using the remote control, press ◄◄ / I◄◄ or ►►I / ►►.

─ PRESET +

I◄◄ ►►I

◄◄/I◄◄ ►►I/►►

notes **If you press and hold I◄◄ / ►►I (or ◄◄ / I◄◄ or ►►I / ►► before playing)**
You can change the tracks continuously.

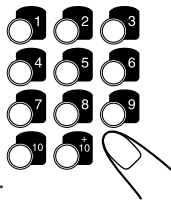## To go to another track directly using the number buttons

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

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

Programming the Playing Order of the Tracks — Program Play

You can arrange the order in which the tracks play before you start playing. **You can program up to 32 tracks.**
- To use Repeat play (see page 15) for Program play, press REPEAT after starting Program play.
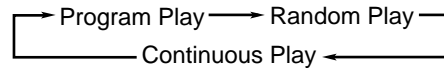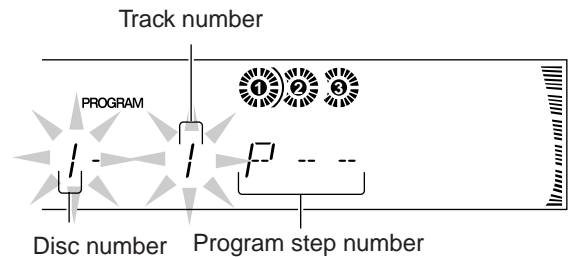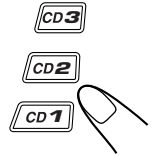
1 Load CDs.
- If the current playing source is not the CD player, press CD ►/II, then ■ before going to the next step.

2 Press PROGRAM/RANDOM repeatedly until "PROGRAM" appears on the display.

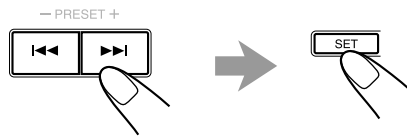PROGRAM / RANDOM

PROGRAM ① ② ③

PROGRAM

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

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

→ Program Play → Random Play →
← Continuous Play ←

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

CD3
CD2
CD1

Track number

PROGRAM ① ② ③

I I P -- --

Disc number   Program step number

4 Select a track from the CD selected in the above step.
On the unit:
Press I◄◄ or ►►I to select the track number, then press SET.

─ PRESET +

I◄◄ ►►I   ➡   SET

On the remote control:
Press the number buttons.
- For how to use the number buttons, see "To go to another track directly using the number buttons" described to the left.

PROGRAM 13J ① ② ③

2 -- 13 P 1

5 Program other tracks you want.
- To program tracks from the same disc, repeat step 4.
- To program tracks from a different disc, repeat steps 3 and 4.

6 Press CD ►/II.
The tracks are played in the order you have programed.

To stop during play, press ■.

To exit from Program play mode, press PROGRAM/ RANDOM repeatedly again before or after play so that the unit enters another play mode. (The program you have made is stored in memory until you turn off the unit or erase the program.)

– 14 –

To check the program contents

Before playing, you can check the program contents by pressing ◄◄ / I◄◄ or ►►I / ►► on the remote control.
• ►►I / ►►: Shows the programed tracks in the programed order.
• ◄◄ / I◄◄: Shows them in the reverse order.
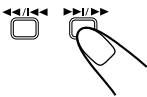
To modify the program

Before playing, you can erase the programed tracks shown on the display by pressing CANCEL.
• Each time you press the button, the programed track shown on the display is erased from the program.

To add tracks in the program before play, simply select the track numbers you want to add by following step 4 of the programming procedure on page 14.

To erase the entire program before or after play, press ■. "PROGRAM" appears on the display.
• Ejecting a CD will also erase the track numbers programed from the ejected CD.

notes **If you try to program a 33rd track**
"FULL" will appear on the display.

notes **If your entry is ignored**
You have tried to program a track from an empty tray, or a track number that does not exist on the CD (for example, selecting track 14 on a CD that only has 12 tracks). Such entries are ignored.
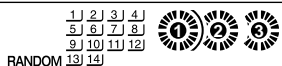
Playing at Random — Random Play

The tracks of all loaded CDs will play at random.
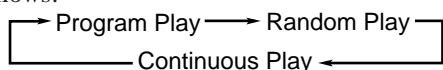• To use Repeat play for Random play, press REPEAT after starting Random play.

1 Load CDs.

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

2 Press PROGRAM/RANDOM repeatedly until "RANDOM" appears on the display.

• Each time you press the button, CD play mode changes as follows:

```
┌─ Program Play ──→ Random Play ─┐
└──────── Continuous Play ◄───────┘
```

3 Press CD ►/❚❚.

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

To skip the currently playing track, press ►►I (or ►►I / ►► on the remote control).

To stop during play, press ■.

• Random play also stops when one of the disc trays is opened.

To exit from Random play mode, press PROGRAM/ RANDOM repeatedly again before or after play so that the unit enters another play mode.
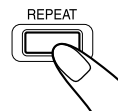
notes **Even if you press I◄◄ (or ◄◄ / I◄◄ on the remote control)**
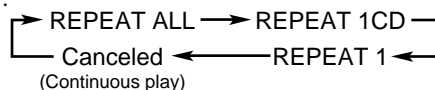You cannot go back to the previous tracks during Random play.

Repeating Tracks or CDs — Repeat Play

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

To repeat play, press REPEAT during or before playing. To use Repeat play for Program play and Random play, press the button after starting playback.
• Each time you press the button, Repeat play mode changes as follows, and the following indicator lights up on the display:

```
┌─→ REPEAT ALL ──→ REPEAT 1CD ─┐
└── Canceled ◄──── REPEAT 1 ◄───┘
   (Continuous play)
```

REPEAT ALL: Repeats all the tracks on all the CDs (continuously or at random), or all the tracks in the program.
REPEAT 1CD*: Repeats all the tracks on one CD.
REPEAT 1: Repeats one track on one CD.
* REPEAT 1CD is not used for Program play and Random play.

To cancel Repeat play, press REPEAT repeatedly until the REPEAT indicator (REPEAT ALL, REPEAT 1CD, or REPEAT 1) goes off from the display.
• Repeat play is also canceled when you select Program play or Random play.

Prohibiting Disc Ejection — Tray Lock

You can prohibit CD ejection from the unit and can lock CDs.
• This operation is possible only using the buttons on the unit.

To prohibit disc ejection, press ⏏ for any disc tray while holding ■. (If there is any disc tray opened, close it first.) "LOCKED" appears for a while, and the loaded CDs are locked.

To cancel the prohibition and unlock the CDs, press ⏏ for any disc tray while holding ■.
"UNLOCKED" appears for a while, and the loaded CDs are unlocked.

notes **If you try to eject CDs**
"LOCKED" appears to inform you that the Tray Lock is in use.
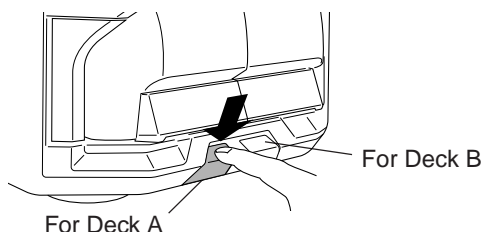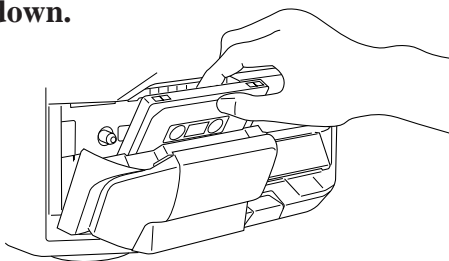
– 15 –

Playing Back Tapes

You can play back type I, type II, and type IV tapes without changing any settings.

Playing Back a Tape

1 Press EJECT (⏏) for the deck you want to use.

For Deck B

For Deck A

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

3 Close the cassette holder gently.

If you put cassettes in both decks A and B, the last deck you have put a cassette into is selected.
To operate the other deck, press TAPE A/B.

4 Press TAPE ◄ ►.

The tape play starts and the tape direction indicator (◄ ►) starts flashing slowly to indicate the tape running direction.
• Each time you press the button, the tape direction changes.

  ► : plays the front side.
  ◄ : plays the reverse side.

When the tape plays to the end, the deck automatically stops if the Reverse Mode is not on. (See "To play both sides repeatedly — Reverse Mode.")

To stop during play, press ■.

To operate the other deck, press TAPE A/B, then TAPE ◄ ►.

To fast wind to the left or to the right, press ◄◄ / ►► (◄◄ / I◄◄ or ►►I / ►► on the remote control) while the tape is not running.
The tape direction indicator (◄ ►) starts flashing quickly on the display.
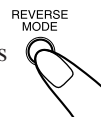
To remove the cassette, press ⏏ EJECT for deck A or EJECT ⏏ for deck B.

To play both sides repeatedly — Reverse Mode

Reverse Mode works for both decks at the same time. When it is in use, the tape automatically reverses at the end of a side and the unit starts playing the other side of the tape, and repeats the same process.

To use Reverse Mode, press REVERSE MODE so that the Reverse Mode indicator on the display lights up like — (⇄)

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

notes **When Reverse Mode is on with cassettes in both decks A and B**

After the reverse (◄) side of the tape finishes playing, the tape in the other deck starts playing.

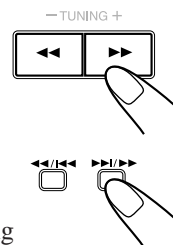## Locating the Beginning of a Song — Music Scan

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

To find the beginning of the current song

During play, press ◄◄ / ►► (◄◄ / I◄◄ or ►►I / ►► on the remote control) in **the opposite direction** to the tape play.
The tape direction indicator of the opposite direction to the tape play starts flashing slowly.

Searching stops automatically at the beginning of the current song, and the current song starts automatically.

To find the beginning of the next song

During play, press ◄◄ / ►► (◄◄ / I◄◄ or ►►I / ►► on the remote control) in **the same direction** as the tape play.
The tape direction indicator of the same direction as the tape play starts flashing slowly and quickly alternately.

Searching stops automatically at the beginning of the next song, and the next song starts automatically.

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

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

STOP! The use of the C-120 or thinner tape is not recommended, since characteristic deterioration may occur and this tape easily jams in the pinch-rollers and the capstans.
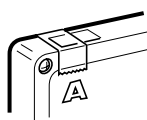
– 16 –

Recording

IMPORTANT:
- **It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.**
- The recording level is automatically set correctly, so it is not affected by the VOLUME control and the ACTIVE BASS EX. LEVEL control. Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
- While recording, you can hear sound modes through the speakers or headphones. However, the sound is recorded without these effects (see page 10).
- 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 use type I and II tapes for recording.

To protect your recording
Cassettes have two small tabs on the back to protect unexpected erasure or re-recording.
To protect your recording, remove these tabs.
To re-record on a protected tape, cover the holes with adhesive tape.
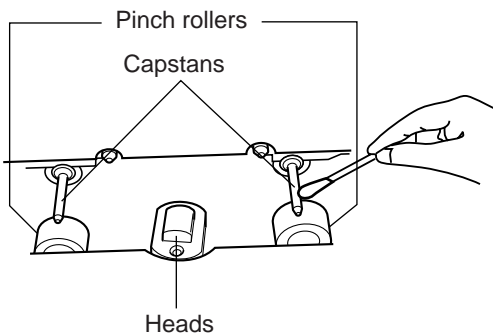When using type II tape, be careful not to cover the holes used to detect the tape type.

To keep the best recording and playback sound quality
If the heads, capstans, and pinch rollers of the cassette decks become dirty, the following will occur:
- Impaired sound quality
- Discontinuous sound
- Fading
- Incomplete erasure
- Difficulty in recording

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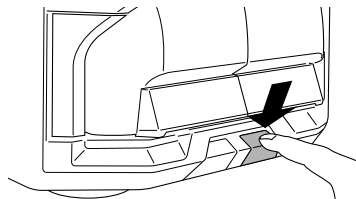Use a cotton swab moistened with alcohol.

Pinch rollers
Capstans
Heads

To demagnetize the heads
Turn off the unit, and use a head demagnetizer (available at electronics and record shops).

Recording a Tape on Deck B

1 Press EJECT ▲ for the deck B.

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

3 Close the cassette holder gently.

4 Check the tape direction of deck B.
- If the tape direction is not correct, press TAPE ◄ ► twice then ■ to change the tape direction.

5 Start playing the source — FM, AM*, CD player, deck A, or auxiliary equipment connected to AUX jacks.
- When the source is CD, you can also use CD Direct Recording (see page 18) and Auto Edit Recording (see page 19).
- When the source is deck A, you can also use the dubbing method. (See "Dubbing Tapes" on page 18.)
- * See "To record an AM station — Beat Cut" on page 18.

6 Start recording.
On the unit:
Press REC START/STOP.
On the remote control:
Press and hold REC START/STOP for more than 1 second.
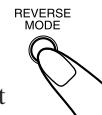The REC (recording) indicator lights up on the display and recording starts.

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

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

To record on both sides — Reverse Mode
Press REVERSE MODE so that the Reverse Mode indicator lights up as — (↻)
- When using the Reverse Mode for recording, start recording in the forward (►) direction first. Otherwise, recording will stop when recording is done only on one side (reverse) of the tape.

To cancel Reverse Mode, press the button again so that the Reverse Mode indicator lights up as — ⇄

– 17 –

To record an AM station — Beat Cut

While recording an AM broadcast, beats may be heard (which are never heard when listening to the broadcast without recording it).

If this occurs, press PROGRAM/RANDOM repeatedly, while recording, until the beats are reduced.
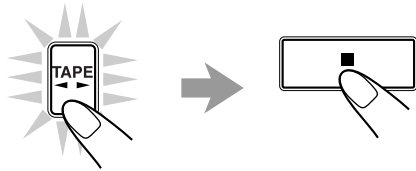
PROGRAM /RANDOM

• Each time you press the button, the display changes to show the following:

CUT1 ⟶ CUT2 ⟶ CUT3

Dubbing Tapes

It is preferable that the tape type (type I or II) you record from be the same as the tape type you record onto when dubbing tapes.
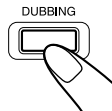
1 **Press TAPE ◀ ▶, then ■.**

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

• Put the cassettes in both decks so that the tapes will run in the forward (▶) direction.

3 **Press DUBBING.**

DUBBING

Dubbing starts.

To stop during dubbing, press ■.

To record on both sides — Reverse Mode

Press REVERSE MODE so that the Reverse Mode indicator lights up as — ⟲

REVERSE MODE

To cancel Reverse Mode, press the button again so that the Reverse Mode indicator lights up as — ⇄
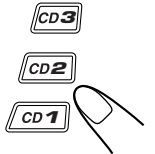
CD Direct Recording

Everything on the CD goes onto the tape in the order it is on the CD, or according to the order you have made for Program play.

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

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

CD3

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

CD2

CD1

4 **Press CD REC START.**

CD REC START

"CD REC" appears, and the REC (recording) indicator lights up on the display. Deck B starts recording and the CD player starts playing.

When the recording is done, "CD REC FINISHED" appears on the display, and the CD player and deck B stop.

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

To record on both sides — Reverse Mode

Press REVERSE MODE so that the Reverse Mode indicator lights up as — ⟲

REVERSE MODE

• When using the Reverse Mode for CD Direct Recording, start recording in the forward (▶) direction first. When the tape reaches its end while recording a song in the forward direction (▶), the last song will be recorded at the beginning of the reverse side (◀).

If you start recording on the reverse side (◀), recording will stop when recording is done only on one side (reverse) of the tape.

To cancel Reverse Mode, press the button again so that the Reverse Mode indicator lights up as — ⇄
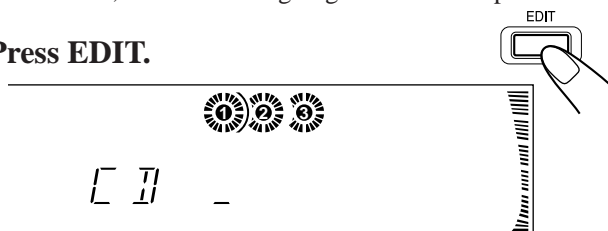
– 18 –

Auto Edit Recording

By using Auto Edit Recording, you can record the CD tracks to fit the tape. Auto Edit Recording makes a program by selecting the CD tracks in numerical order. However, to prevent the end of the last track on the front side from being cut off, the last track is selected so as to fit on the remaining tape length.
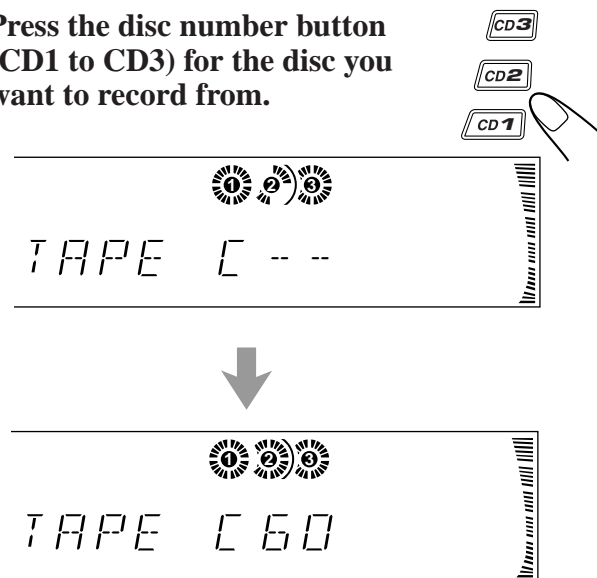
On the unit ONLY:

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

2 Press EDIT.

EDIT

```
  ①②③
  C D  _
```

3 Press the disc number button (CD1 to CD3) for the disc you want to record from.

CD3
CD2
CD1

```
  ①②③
TAPE  C -- --
```
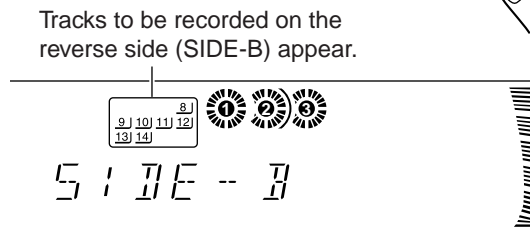
⬇

```
  ①②③
TAPE  C 60
```

The optimum tape length for the disc appears.

To change the tape length manually
If the tape length selected is not satisfactory, you can change the tape length by pressing I◄◄ or ►►I.
You can select the tape length among the following — 40, 46, 50, 54, 60, 64, 70, 74, 80, 84, and 90.

4 Press SET.

SET

Tracks to be recorded on the reverse side (SIDE-B) appear.

```
 9 10 11  8
13 14    12    ①②③

S I D E -- B
```

• Each time you press the button, the tracks to be recorded on the front side (SIDE-A) and on the reverse side (SIDE-B) alternate.

5 Put a recordable cassette of appropriate length into deck B.

6 Press REVERSE MODE so that the Reverse Mode indicator lights up as (↺).

REVERSE MODE

• Without turning on the Reverse Mode (↺), recording will stop when the front side of the tape is recorded.

7 Press CD REC START.

CD REC START

The REC (recording) indicator lights up on the display.
Deck B starts recording then, about 10 seconds later, the CD player starts playing.
When the recording is done, "CD REC FINISHED" appears on the display, and the CD player and deck B stop.
• If a tape has not been rewound, deck B will rewind the tape before it starts recording.
• A 10-second blank portion is automatically created at the beginning of each side of the tape.

To stop during Auto Edit Recording
Press ■ or REC START/STOP so that a 4-second blank portion is created on the recorded tape. (Remember a 4-second blank is important when using Music Scan — see page 16.)

To cancel Auto Edit Recording
Press CANCEL before or after play.
• Pressing one of the following buttons will also cancel Auto Edit Recording — ■, REC START/STOP, and PROGRAM/RANDOM.

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Using the Microphones

You can enjoy singing along (Karaoke) and microphone mixing by using two microphones.
• The MIC LEVEL control adjustment is valid for both microphones connected the MIC 1 and MIC 2 jacks.
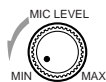
IMPORTANT:
• Always set the MIC LEVEL to MIN when connecting or disconnecting the microphone.
• When you do not use the microphone, keep the microphones unconnected.

Singing Along

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

1 Rotate the MIC LEVEL to MIN.

2 Connect the microphone(s) (not supplied) by plugging it into the MIC 1 and/or MIC 2 jack.
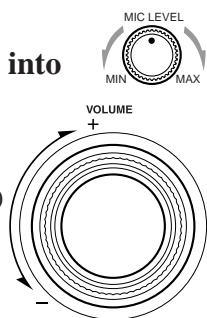
3 Press VOCAL MASKING on the remote control.
The karaoke indicator (🎤) lights up on the display.

**4** Start playing the source — CD, tape, or other connected component.

5 Rotate the MIC LEVEL and VOLUME controls as you sing into the microphone(s).
• By pressing REC START/STOP, you can record your singing along if you want. (For more details, see page 17.)

To apply an echo to your voice
Press ECHO on the remote control so that the echo (🔊) indicator lights up on the display. Each time you press the button, the echo level changes as follows:

```
 ┌─→ ECHO 1 ─→ ECHO 2 ─→ ECHO 3 ─┐
 │                                │
 └──────── ECHO OFF ◄─────────────┘
            (Canceled)
```
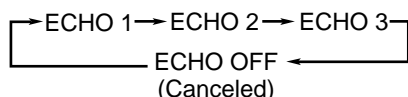
As the number increases, a stronger echo effect applies to your voice.

www.DataSheet4U.com

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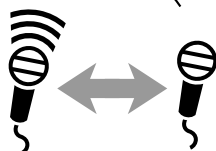
notes **If howling or squealing (feedback) occurs while using the microphone(s)**
Take the following actions to prevent these noises.
• Adjust the MIC LEVEL and VOLUME controls.
• Avoid pointing the microphone(s) towards the speakers.
• When two microphones are connected, turn off the On/Off switch on the unused microphone.

notes **If you use the following sources as the playing source for Vocal Masking, you cannot get the satisfactory results**
• Radio programs — a radio signal is not as reliable as the signals coming from a tape or CD.
• Monaural sources.
• Poorly dubbed tapes.
• Sources recorded with duets, strong echo, a chorus, or only a few instruments.

Microphone mixing
When you sing along with multiplex tapes or CDs, follow the procedure below:

On the unit ONLY:
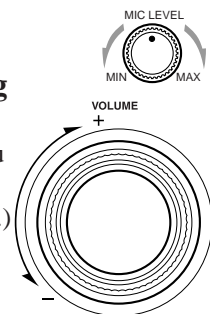**1** Rotate the MIC LEVEL to MIN.

2 Connect the microphone(s) (not supplied) by plugging it into the MIC 1 and/or MIC 2 jack.

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

4 Rotate the MIC LEVEL and VOLUME controls as you sing into the microphone(s).
• By pressing REC START/STOP, you can record your singing along if you want. (For more details, see page 17.)

To use microphone only
Without any background sound, you can use your microphone(s), and record it if you want.

1 Rotate the MIC LEVEL to MIN.

2 Connect the microphone(s) (not supplied) by plugging it into the MIC 1 and/or MIC 2 jack.

3 Press CD ▶/❚❚, then ■.
No background sound will be heard.

4 Rotate the MIC LEVEL and VOLUME controls as you sing or speak into the microphone(s).

Using the Timers

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

Before using the timers, you need to set the clock built in the unit. (See page 9.)

Using Daily Timer

With Daily Timer, you can wake to your favorite music or radio program.

How Daily Timer actually works

The unit automatically turns on, set the volume level to the preset level, and starts playing the specified source when the on-time comes (the ⏲ indicator flashes just before the on-time, and continues flashing while the timer is operating). Then, when the off-time comes ("OFF" flashes just before the off-time), the unit automatically turns off (stands by). The timer setting remains in memory until you change it.
• There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
• If you have made a mistake while setting timer, press CANCEL. (However, this does not always work. If CANCEL does not work, press CLOCK/TIMER repeatedly and start from step 1 again.)
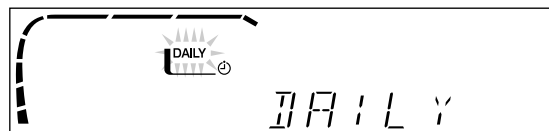
> **Before you start...**
> • *When using a CD as the source to play,* make sure there is a CD on the selected disc number tray.
> • *When using a tape as the source to play* —
>   – Make sure that a tape is in the deck whose deck indicator (A or B) is lit on the display.
>   – Make sure that the tape direction is correct.
> • *When using the external component as the source to play,* set the timer equipped with the external component at the same time.
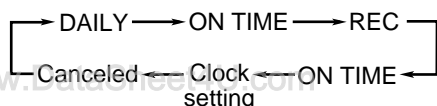
On the unit ONLY:

1 Press CLOCK/TIMER until "DAILY" appears on the display.
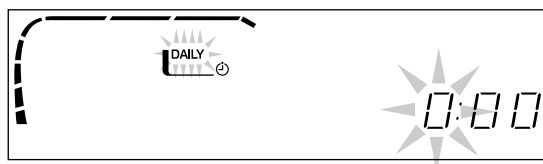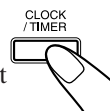The DAILY (Daily Timer) indicator also starts flashing on the display.

CLOCK/TIMER

DAILY

D R I L Y

• Each time you press the button, the timer setting modes change as follows:

DAILY → ON TIME → REC
↑   ↓
Canceled ← Clock ← ON TIME
setting
(See page 9.)

2 Press CLOCK/TIMER again.
"ON TIME" appears for 2 seconds, then the unit enters on-time setting mode.
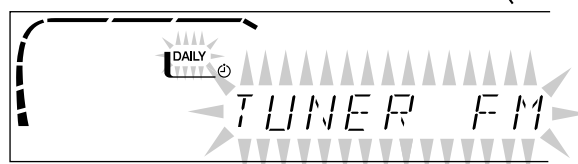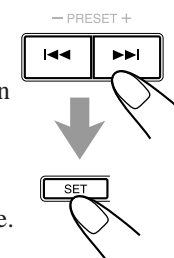
CLOCK/TIMER

DAILY

0:00

3 Set the on-time you want the unit to turn on.
1) Press |◀◀ or ▶▶| to set the hour, then press SET.
2) Press |◀◀ or ▶▶| to set the minute, then press SET.
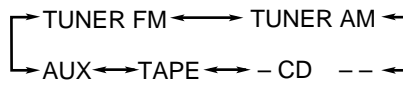   "OFF TIME" appears for 2 seconds, then the unit enters off-time setting mode.

– PRESET +

|◀◀   ▶▶|

SET

4 Set the off-time you want the unit to turn off (on standby).
1) Press |◀◀ or ▶▶| to set the hour, then press SET.
2) Press |◀◀ or ▶▶| to set the minute, then press SET.
   The unit enters source selecting mode.

– PRESET +

|◀◀   ▶▶|

SET

DAILY

TUNER FM

5 Press |◀◀ or ▶▶| to select the source to play, then press SET.
• Each time you press |◀◀ or ▶▶|, the source changes as follows:

– PRESET +

|◀◀   ▶▶|

SET

TUNER FM ⟷ TUNER AM
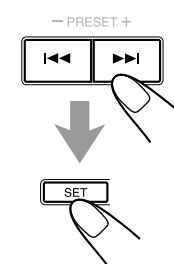↑   ↓
AUX ⟷ TAPE ⟷ – CD – –

TUNER FM: tunes into a specified preset FM station. → go to step 6.
TUNER AM: tunes into a specified preset AM station. → go to step 6.
– CD – –: plays a disc from a specified track of a specified disc. → go to step 6.
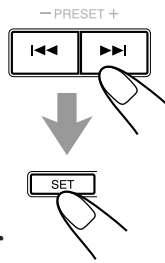TAPE: plays a tape in deck A or B. → go to step 7.
AUX: plays an external source. → go to step 7.

6 **When selecting "– CD – –"**

1) Press |◄◄ or ►►| to select the disc number, then press SET.

2) Press |◄◄ or ►►| to set the track number, then press SET.
The unit enters volume setting mode.

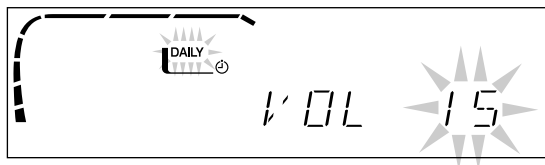— PRESET +

SET

When selecting "TUNER FM" or "TUNER AM"

Press |◄◄ or ►►| to select the preset station number, then press SET.
The unit enters volume setting mode.
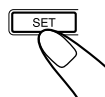
7 **Press |◄◄ or ►►| to set the volume level.**

— PRESET +

• You can select the volume level from among the following — "VOL – –," "VOL 5," "VOL 10," and "VOL 15."
If you select " VOL – –," the volume is set to the last level when the unit has been turned off.
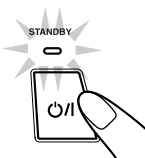
DAILY

VOL 15

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

SET

The DAILY (Daily Timer) indicator stops flashing and remains lit. The settings you have done are shown on the display in sequence.
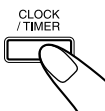
9 **Press ⏻/| to turn off the unit (on standby) if you have set the Daily Timer with the unit turned on.**

STANDBY
⏻/|

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

CLOCK / TIMER

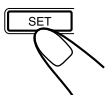**1** Press CLOCK/TIMER repeatedly until "DAILY" appears on the display.

2 To turn off the Daily Timer, press CANCEL.
The DAILY (Daily Timer) indicator goes off from the display ("OFF" appears for a while). The Daily Timer is canceled, but the setting for the Daily Timer remains in memory.

DEMO
CANCEL

To turn on the Daily Timer, press SET.
The DAILY (Daily Timer) indicator lights up on the display. The settings you have done are shown on the display in sequence for your confirmation.

SET

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

Using Recording Timer

With Recording Timer, you can make a tape of a radio broadcast automatically.

How Recording Timer actually works

The unit automatically turns on, tunes into the specified station, sets the volume level to "MIN," and starts recording when the on-time comes (the ⏱ indicator flashes just before the on-time, and continues flashing while the timer is operating). Then, when the off-time comes ("OFF" appears just before the off-time), the unit automatically turns off (stands by).
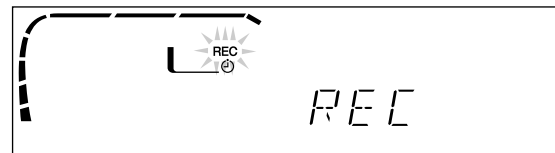The timer setting remains in memory until you change it.

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

• If you have made a mistake while setting the timer, press CANCEL. (However, this does not always work. If CANCEL does not work, press CLOCK/TIMER repeatedly and start from step 1 again.)

On the unit ONLY:

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

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

CLOCK / TIMER

The REC (Recording Timer) indicator also starts flashing on the display.

REC

REC

• Each time you press the button, the timer setting modes change as follows:

```
  ┌─→ DAILY ──→ ON TIME ──→ REC ─┐
  └─ Canceled ←── Clock ←── ON TIME ←┘
              setting
```
(See page 9.)

3 **Press CLOCK/TIMER again.**

CLOCK / TIMER

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

REC

0:00

– 22 –

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

1) Press I◄◄ or ►►I to set the hour, then press SET.
2) Press I◄◄ or ►►I to set the minute, then press SET.
   "OFF TIME" appears for 2 seconds, then the unit enters off-time setting mode.

— PRESET +
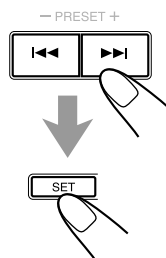I◄◄ ►►I

SET

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

1) Press I◄◄ or ►►I to set the hour, then press SET.
2) Press I◄◄ or ►►I to set the minute, then press SET.
   The unit enters preset station selecting mode.

— PRESET +
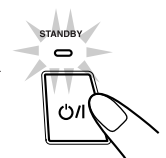I◄◄ ►►I

SET

6 Select the preset station.

1) Press I◄◄ or ►►I to select the band ("TUNER FM" or "TUNER AM"), then press SET.
2) Press I◄◄ or ►►I to select a preset channel number, then press SET.
   The REC (Recording Timer) indicator stops flashing and remains lit. The settings you have done are shown on the display in sequence.
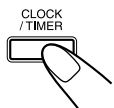
— PRESET +
I◄◄ ►►I

SET

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

STANDBY

⏻/|

notes **If you want to listen to another source while recording**
Press REC START/STOP to stop recording. Without stopping it, you cannot change the source.

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

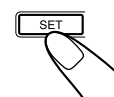1 **Press CLOCK/TIMER repeatedly until "REC" appears on the display.**

CLOCK/TIMER

2 **To turn off the Recording Timer, press CANCEL.**
   The REC (Recording Timer) indicator goes off from the display.
   The Recording Timer is canceled, but the setting for the Recording Timer remains in memory.

DEMO
CANCEL

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

SET

www.DataSheet4U.com

Using Sleep Timer

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

How Sleep Timer actually works
The unit automatically turns off after the specified time length passes.
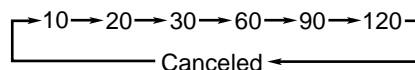
On the remote control ONLY:

1 Press SLEEP.
The time length until the shut-off time appears and the SLEEP indicator starts flashing on the display.
• Each time you press the button, the time length changes as follows:

SLEEP

┌→10→20→30→60→90→120┐
└──── Canceled ◄────┘

2 Wait for about 5 seconds after specifying the time length.
The SLEEP indicator stops flashing and remains lit.

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

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

To cancel the setting, press SLEEP repeatedly so that the SLEEP indicator goes off.
• Sleep Timer is also canceled when you turn off the unit.

Timer Priority

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

• **Recording Timer has priority over Daily Timer and Sleep Timer.**
   If Daily Timer is set to come on while Recording Timer is operating, Daily Timer will not come on at all.

6:00   6:30   7:00   7:30

Recording Timer
Daily Timer
                └── does not work.

If Recording Timer is set to come on while Sleep Timer is operating, Sleep Timer will not work (the SLEEP indicator does not go off).

6:00   6:30   7:00   7:30

Recording Timer
Sleep Timer
                └── does not work.

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Maintenance

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

Handling discs

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

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

To clean the disc
Wipe the disc with a soft cloth in a straight line from center to edge.
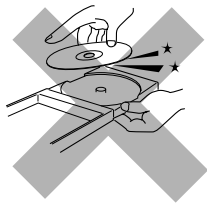
> DO NOT use any solvent — such as conventional record cleaner, spray, thinner, or benzine — to clean the disc.

Handling cassette tapes

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

- Be careful not to touch the tape surface.

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

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Troubleshooting

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

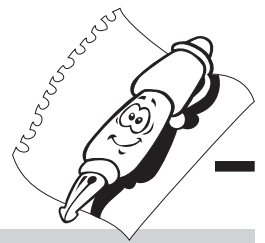| Symptom	Cause	Action
No sound is heard.	Connections are incorrect or loose.	Check all connections and make corrections. (See pages 6 to 8.)
Hard to listen to broadcasts because of noise.	• Antennas are disconnected. • The AM loop antenna is too close to the unit. • The FM antenna is not properly extended and positioned.	• Reconnect the antennas correctly and securely. • Change the position and direction of the AM loop antenna. • Extend the FM antenna at the best position.
The disc sound is discontinuous.	The disc is scratched or dirty.	Clean or replace the disc. (See page 24.)
The disc tray does not open or close.	• The AC power cord is not plugged in. • Trays are locked.	• Plug the AC power cord. • Unlock the trays. (See page 15.)
The disc does not play.	The disc is placed upside down.	Place the disc with the label side up.
The cassette holders cannot be opened.	Power supply from the AC power cord has been cut off while the tape was running.	Turn on the unit.
Impossible to record.	Small tabs on the back of the cassette are removed.	Cover the holes with adhesive tape.
Stereo effect is lost.	Vocal Masking is activated.	Cancel the Vocal Masking. (See page 20.)
Operations are disabled.	The built-in microprocessor may malfunction due to external electrical interference.	Unplug the AC power cord and then plug it back in.
Unable to operate the unit from the remote control.	• The path between the remote control and the remote sensor on the unit is blocked. • The batteries are exhausted.	• Remove the obstruction. • Replace the batteries.

Specifications

Amplifier section — CA-MXJ500

Output Power (IEC 268-3/DIN)
72 W per channel, min. RMS, both channels driven into 6 Ω at 1 kHz with no more than 0.9% total harmonic distortion.

Audio input sensitivity/Impedance (at 1 kHz)

AUX: 420 mV/50 kΩ
MIC 1/2: 3.9 mV/5 kΩ

Speakers/Impedance: 6 Ω – 16 Ω

Tuner

FM tuning range: 87.50 MHz – 108.00 MHz
AM tuning range:

For Saudi Arabia:
At 9 kHz intervals :   531 kHz – 1,602 kHz
At 10 kHz intervals :   530 kHz – 1,600 kHz
For other countries:
At 9 kHz intervals :   531 kHz – 1,710 kHz
At 10 kHz intervals :   530 kHz – 1,710 kHz

CD player

CD Capacity: 3 CDs
Dynamic range: 85 dB
Signal-to-noise ratio: 90 dB
Wow and flutter: Immeasurable

Cassette deck

Frequency response
Normal (type I): 50 Hz — 14,000 Hz
CrO$_2$ (type II): 50 Hz — 14,000 Hz
Metal (type IV): 50 Hz — 14,000 Hz (only for playback)
Wow and flutter
0.15% (WRMS)

General

Power requirement: AC 110 V / AC 127 V / AC 220 V /
AC 230 V – AC 240 V ∿ (adjustable with the voltage selector), 50 Hz/ 60 Hz
Power consumption: 95 W (at operation)
14 W (on standby)
Maximum power consumption (for Taiwan only): 360 W
Dimensions (approx.): 265 mm x 335 mm x 368 mm (W/H/D)
(10 $^7/_{16}$ in. x 13 $^1/_4$ in. x 14 $^1/_2$ in.)
Mass (approx.):   9.8 kg (21.6 lbs)

Supplied accessories

See page 6.

Speaker section — SP-MXJ550

Type: 3-way bass-reflex type
Speaker units: Woofer: 16 cm (6 $^5/_{16}$ in.) cone x1
Midrange: 5 cm (2 in.) cone x1
Tweeter: 2 cm ($^{13}/_{16}$ in.) dome x1
Power handling capacity: 120 W
Impedance: 6 Ω
Frequency range: 45 Hz — 25,000 Hz
Sound pressure level: 86 dB/W•m
Dimensions (approx.): 235 mm x 335 mm x 270 mm (W/H/D)
(9 $^5/_{16}$ in. x 13 $^1/_4$ in. x 10 $^{11}/_{16}$ in.)
Mass (approx.):   3.7 kg (8.2 lbs) each

Design and specifications are subject to change without notice.

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

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

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

主（AC）電源線路說明（不適用於歐洲、美國、加拿大、澳洲及英國型號）

تعليمات خط التيار الكهربائي الرئيسي (المتردد) (لا تنطبق على اوروبا والولايات المتحدة الامريكية وكندا واستراليا والمملكة المتحدة)

VOLTAGE SELECTOR

127V — 230V -240V

110V — 220V
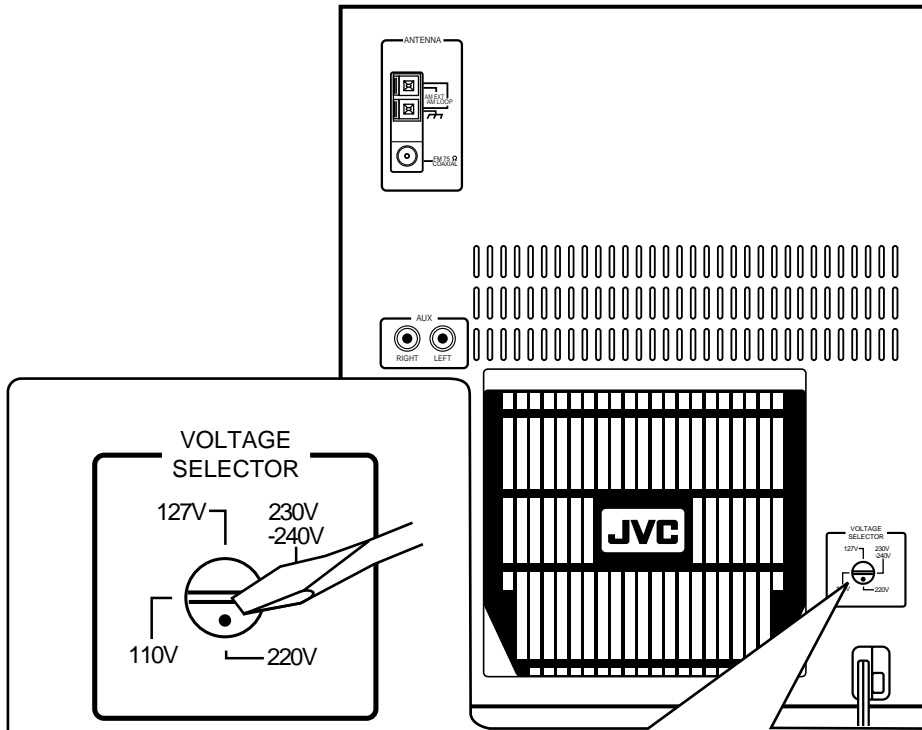
IMPORTANT for mains (AC) line
BEFORE PLUGGING IN, do check that your mains (AC) line voltage corresponds with the position of the voltage selector switch provided on the outside of this equipment and, if different, reset the voltage selector switch, to prevent from damage or risk of fire/electric shock.

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

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

有關主（AC）電源線路的重要事項
接插電源以前，務請檢查當地的主（AC）電源線路電壓是否和位於本機外面的電壓選擇開關設定的位置一致。如果不一致，即重新設定電壓選擇開閉使符合當地電壓，以免損壞機器或引起火災／觸電的危險。

هام من اجل خط التيار الكهربائي الرئيسي (المتردد)
قبل ادخال قابس منتخب الطاقة الكهربائية، تأكد من تطابق منتخب فولطية التيار الكهربائي الرئيسي (المتردد) الموجود على خلفية الجهاز مع فولطية التيار الكهربائي في بلدك. في حالة عدم التطابق، اعد ضبط مفتاح منتخب الفولطية على فولطية التيار الكهربائي المتردد في بلدك. عدم عمل ذلك، يمكن يؤدي الى حصول ضرر او حريق أو صدمة كهربائية.

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