

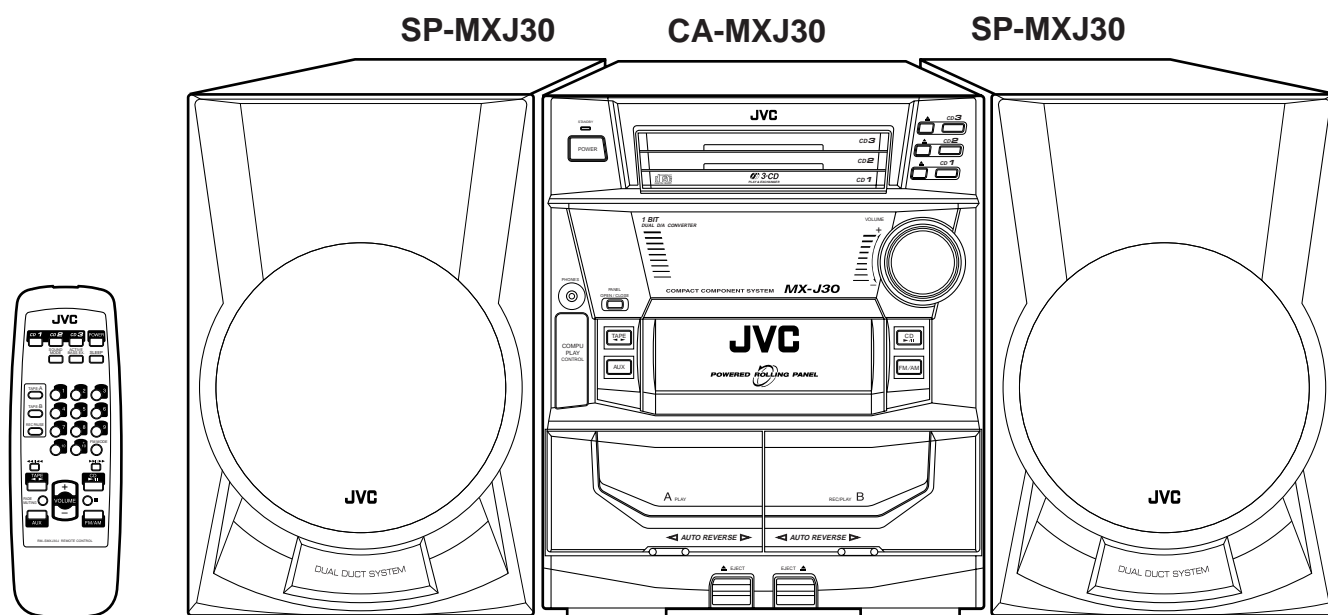
JVC

COMPACT COMPONENT SYSTEM

SYSTEME DE COMPOSANTS COMPACT

MX-J30

Consists of CA-MXJ30 and SP-MXJ30.
Composé du CA-MXJ30 et SP-MXJ30.



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. _____

GVT0011-001A
[J]



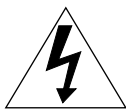
Warnings, Cautions and Others

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. Éviter 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 JUSQU'AU 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.

Caution: Proper Ventilation

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

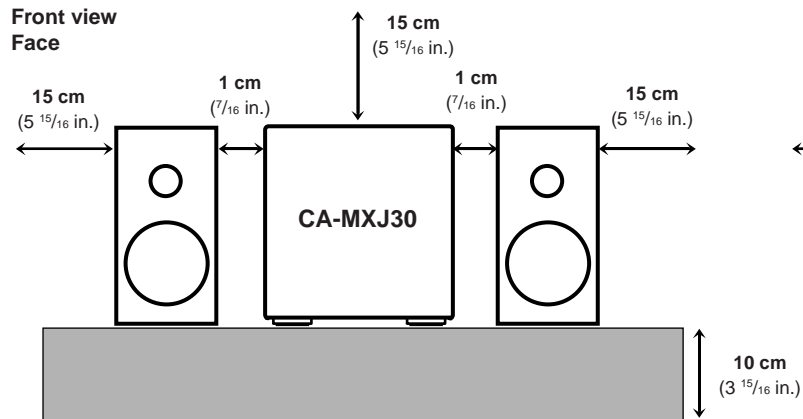
- 1 Front:
No obstructions and open spacing.
- 2 Sides/ Top/ Back:
No obstructions should be placed in the areas shown by the dimensions below.
- 3 Bottom:
Place on the level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm (3 ¹⁵/₁₆ in.) or more.

Attention: Aération correcte

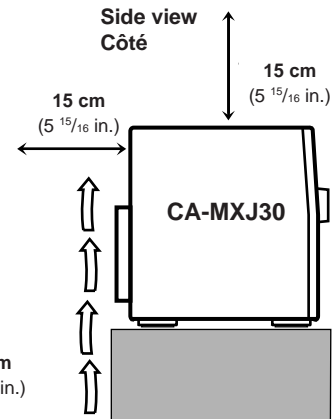
Pour prévenir tout risque de décharge électrique ou d'incendie et éviter toute détérioration, installez l'appareil de la manière suivante:

- 1 Avant:
Bien dégagé de tout objet.
- 2 Côtés/dessus/dessous:
Assurez-vous que rien ne bloque les espaces indiqués sur le schéma ci-dessous.
- 3 Dessous:
Posez l'appareil sur une surface plane et horizontale. Veillez à ce que sa ventilation correcte puisse se faire en le plaçant sur un support d'au moins dix centimètres (3 ¹⁵/₁₆ po.) de hauteur.

Front view
Face



Side view
Côté





Introduction



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

About This Manual

This manual is organized as follows:

- The manual mainly explains operations using the buttons and controls on the unit. You can also use the buttons on the remote control if they have the same or similar names (or marks) as those on the unit. If operation using the remote control is different from that using the unit, it is then explained.
- Basic and common information that is the same for many functions is grouped in one place, and is not repeated in each procedure. For instance, we do not repeat the information about turning on/off the unit, setting the volume, changing the sound effects, and others, which are explained in the section “Common Operations” on pages 9 and 10.
- The following marks are used in this manual:



Gives you warnings and cautions to prevent from a 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.

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.

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.



Contents



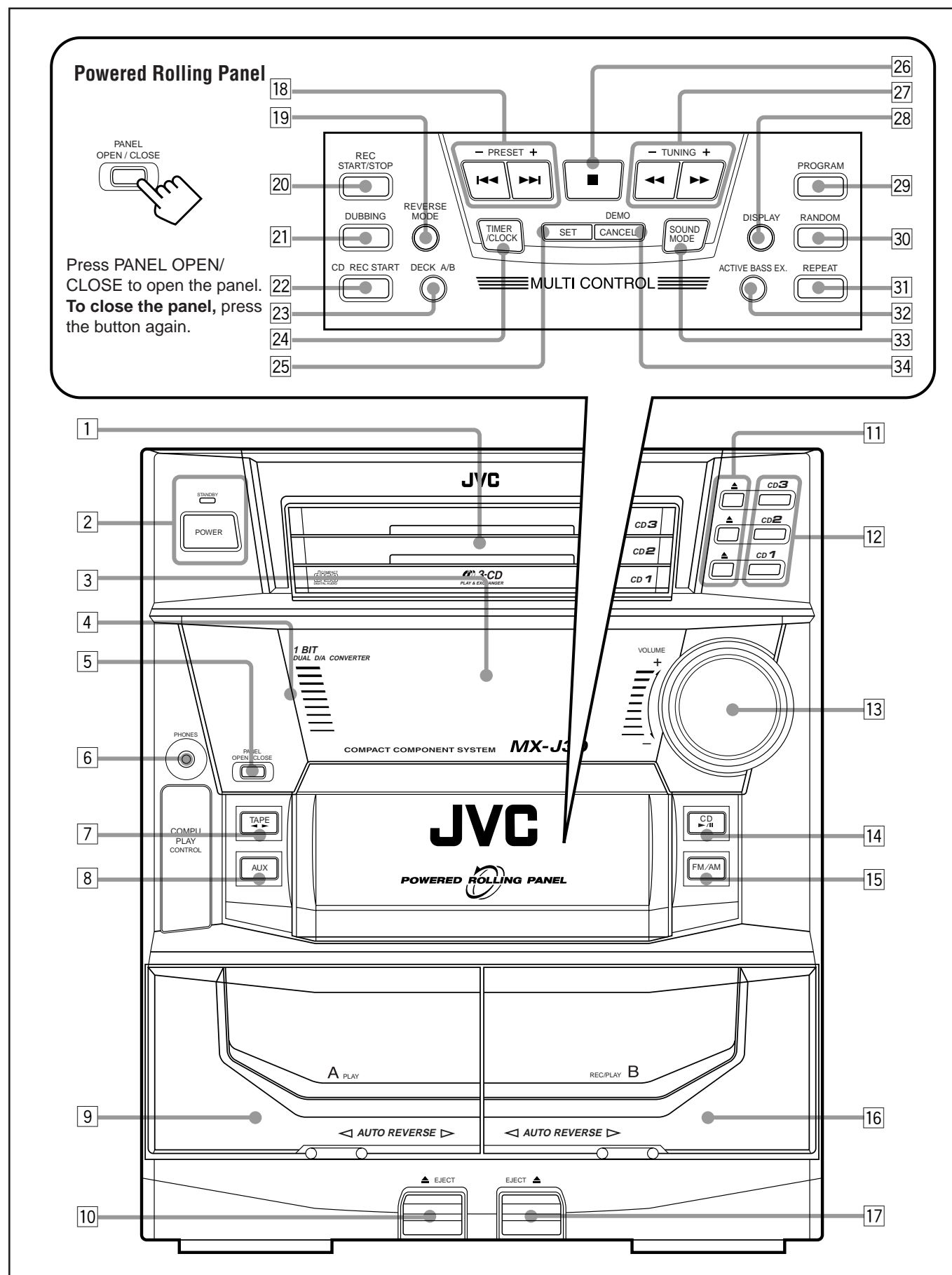
Location of the Buttons and Controls	3
Front Panel	4
Remote Control	5
Getting Started	6
Unpacking	6
Putting the Batteries into the Remote Control	6
Connecting Antennas	6
Connecting Speakers	7
Connecting Other Equipment	8
Common Operations	9
Setting the Clock	9
Turning On the Power and Selecting the Sources	9
Adjusting the Volume	10
Reinforcing the Bass Sound	10
Selecting the Sound Modes	10
Listening to FM and AM Broadcasts	11
Tuning in a Station	11
Presetting Stations	11
Tuning in a Preset Station	11
Playing Back CDs	12
Loading CDs	12
Playing Back the Entire Discs	
— Continuous Play	12
Basic CD Operations	12
Programming the Playing Order of the Tracks	
— Program Play	13
Playing at Random — Random Play	14
Repeating Tracks or CDs — Repeat Play	14
Prohibiting Disc Ejection — Tray Lock	14
Playing Back Tapes	15
Playing Back a Tape	15
Locating the Beginning of a Song — Music Scan ...	15
Recording	16
Recording Tapes on Deck B	16
Dubbing Tapes	17
CD Direct Recording	17
Using the Timers	18
Using Daily Timer	18
Using Recording Timer	19
Using Sleep Timer	20
Timer Priority	20
Maintenance	21
Troubleshooting	22
Specifications	22





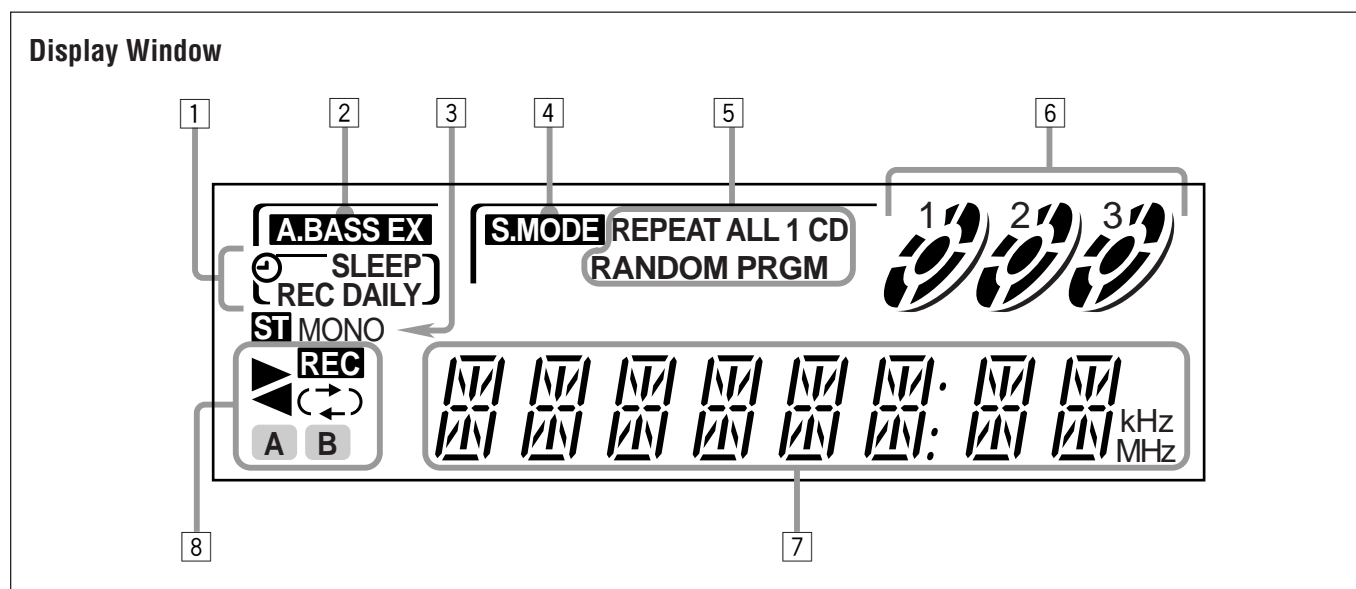
Location of the Buttons and Controls

Become familiar with the buttons and controls on your unit.





Continued



See pages in the parentheses for details.

Front Panel

- 1 Disc trays
- 2 POWER button and STANDBY lamp (9)
- 3 Display window
- 4 Remote sensor
- 5 PANEL OPEN/CLOSE button (9)
Pressing this button also turns on the unit.
- 6 PHONES jack (10)
- 7 TAPE button and lamp (15)
Pressing this button also turns on the unit.
- 8 AUX button and lamp (9)
Pressing this button also turns on the unit.
- 9 Deck A cassette holder (15)
- 10 EJECT button for deck A (15)
- 11 (CD tray open/close) buttons (12)
Pressing one of these buttons also turns on the unit.
- 12 Disc number buttons and lamps (CD 1, CD 2, and CD 3) (12)
Pressing one of these buttons also turns on the unit.
- 13 VOLUME control (10)
- 14 CD button (play/pause) button and lamp (12)
Pressing this button also turns on the unit.
- 15 FM/AM button and lamp (11)
Pressing this button also turns on the unit.
- 16 Deck B cassette holder (16)
- 17 EJECT button for deck B (16)

Powered Rolling Panel

- 18 PRESET - / + buttons (11)
◀◀ / ▶▶ (reverse search/forward search) buttons (9, 13, 18)
- 19 REVERSE MODE button (15, 17)

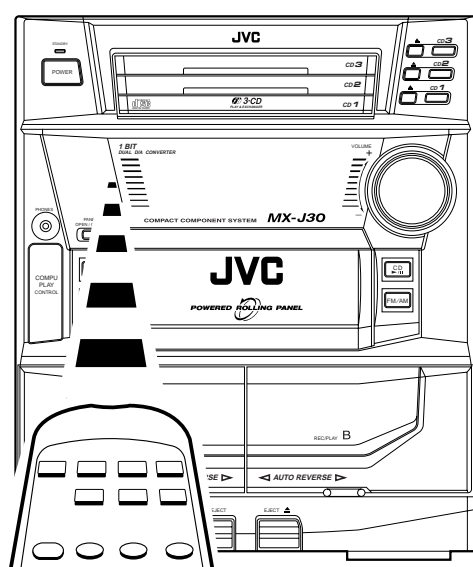
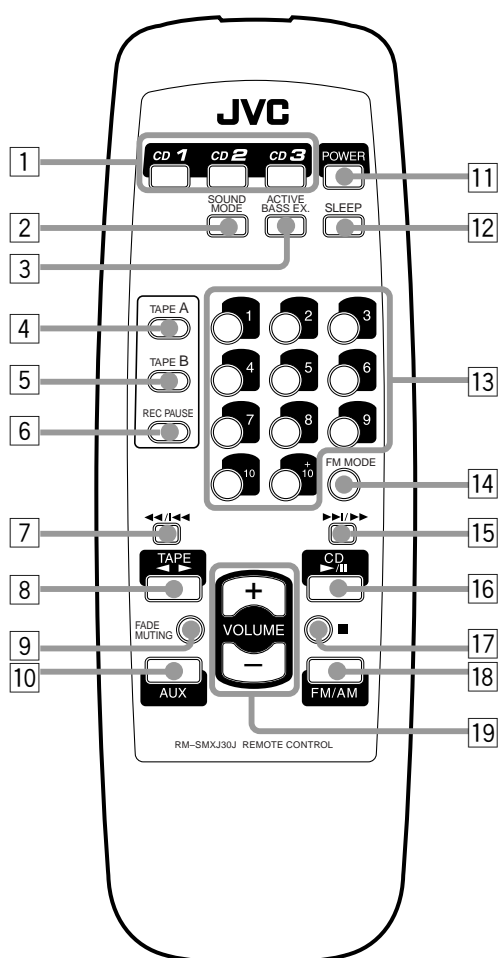
- 20 REC START/STOP button (16)
- 21 DUBBING button (17)
- 22 CD REC START button (17)
- 23 DECK A/B button (15)
- 24 TIMER/CLOCK button (9, 18)
- 25 SET button (9, 18)
- 26 (stop) button (12, 15)
- 27 TUNING - / + buttons (11)
◀◀ / ▶▶ (fast left/fast right) buttons (11, 13, 15)
- 28 DISPLAY button (9)
- 29 PROGRAM button (13, 17)
- 30 RANDOM button (14)
- 31 REPEAT button (14)
- 32 ACTIVE BASS EX. (extension) button and lamp (10)
- 33 SOUND MODE button (10)
- 34 CANCEL button (9, 14, 18)
DEMO button (8)

Display window

- 1 Timer indicators
 - SLEEP, REC, and DAILY indicators
- 2 A. BASS EX (active bass extension) indicator
- 3 Tuner operation indicators
 - ST (stereo) and MONO indicators
- 4 S. MODE (sound mode) indicator
- 5 CD play mode indicators
 - REPEAT (ALL/1CD/1), RANDOM, and PRGM (program) indicators
- 6 Disc indicators
- 7 Main display
 - Shows the source name, frequency, etc.
- 8 Tape operation indicators
 - (tape direction), REC, (reverse mode), and A/B (operating deck) indicators



Remote Control



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

Remote Control

- 1 Disc number buttons (CD 1, CD 2, and CD 3) (12)
Pressing one of these buttons also turns on the unit.
- 2 SOUND MODE button (10)
- 3 ACTIVE BASS EX. (extension) button (10)
- 4 TAPE A button (15)
- 5 TAPE B button (15)
- 6 REC PAUSE button (16)
- 7 ◀◀ / ▶▶ (fast left/reverse search) button (13 – 15)
- 8 TAPE ◀▶ button (15)
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 POWER button (9)
- 12 SLEEP button (20)
- 13 Number buttons (11, 13)
- 14 FM MODE button (11)
- 15 ▶▶ / ▶▶ (forward search/fast right) button (13 – 15)
- 16 CD ▶/|| button (12)
Pressing this button also turns on the unit.
- 17 ■ (stop) button (12, 15)
- 18 FM/AM button (11)
Pressing this button also turns on the unit.
- 19 VOLUME + / - button (10)



Getting Started

Continued

Unpacking

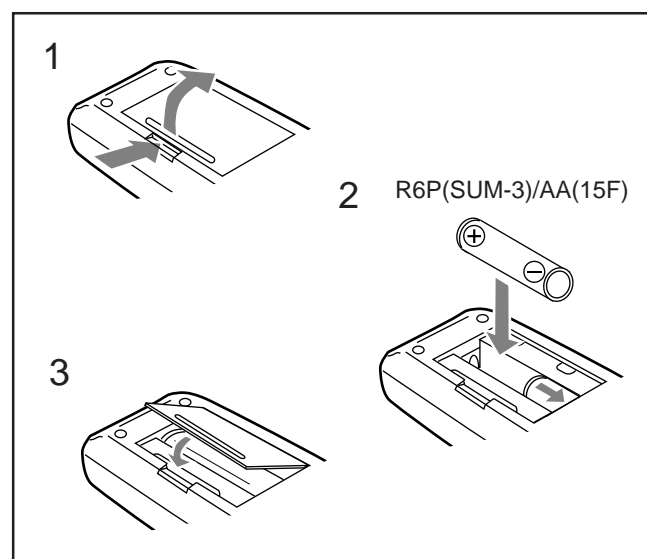
After unpacking, check to be sure that you have all the following items.
The number in the parentheses indicates the quantity of the pieces supplied.

- 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

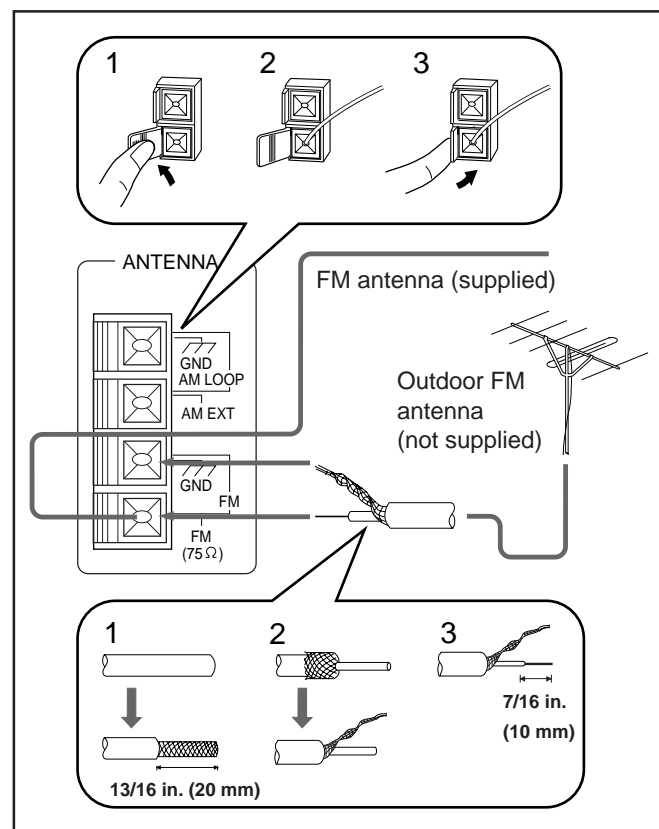
Insert the batteries — R6P(SUM-3)/AA(15F) — into the remote control, by matching the polarity (+ and –) on the batteries with the + and – markings on the battery compartment.
When the remote control can no longer operate the unit, replace both batteries at the same time.



- 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



Extend the FM antenna (supplied) horizontally.



If reception is poor, connect the outdoor antenna

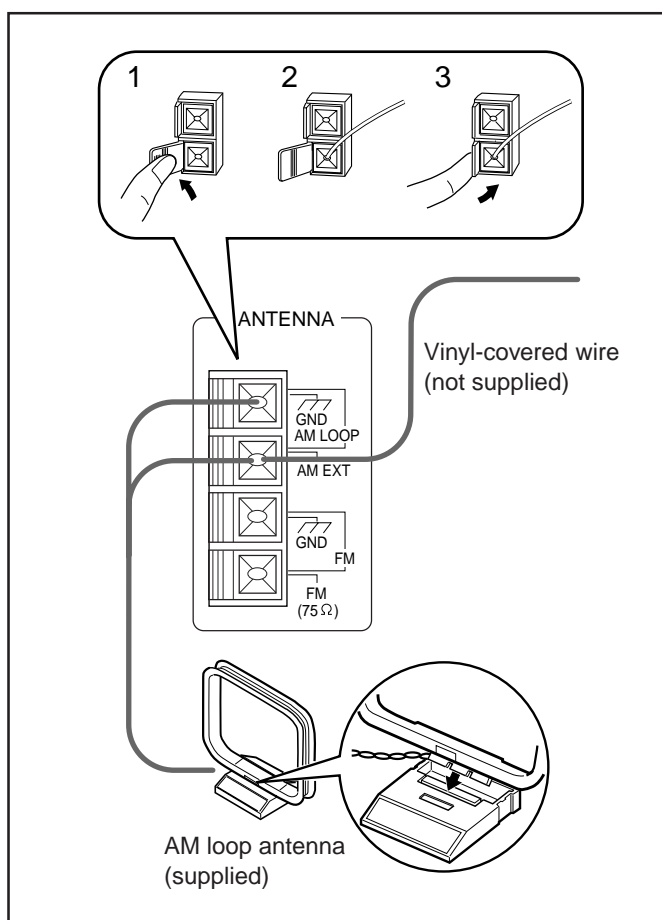
Connect the outdoor antenna.
Before attaching a 75-ohm coaxial cable (the kind with a round wire going to an outdoor antenna), disconnect the supplied FM antenna.

How to strip the 75-ohm coaxial cable and connect it to the FM terminals

- 1.Strip off the outside covering of the 75-ohm coaxial cable to expose the braided metallic mesh about 13/16 inches (20 mm).
- 2.Pull the mesh back and twist it into a single conductor as shown in the illustration above.
- 3.Strip the insulation about 7/16 inches (10 mm) back from the central wire.
- 4.Insert the twisted mesh and the central wire into the FM terminals, as shown in the illustration above.



AM antenna



- 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.)

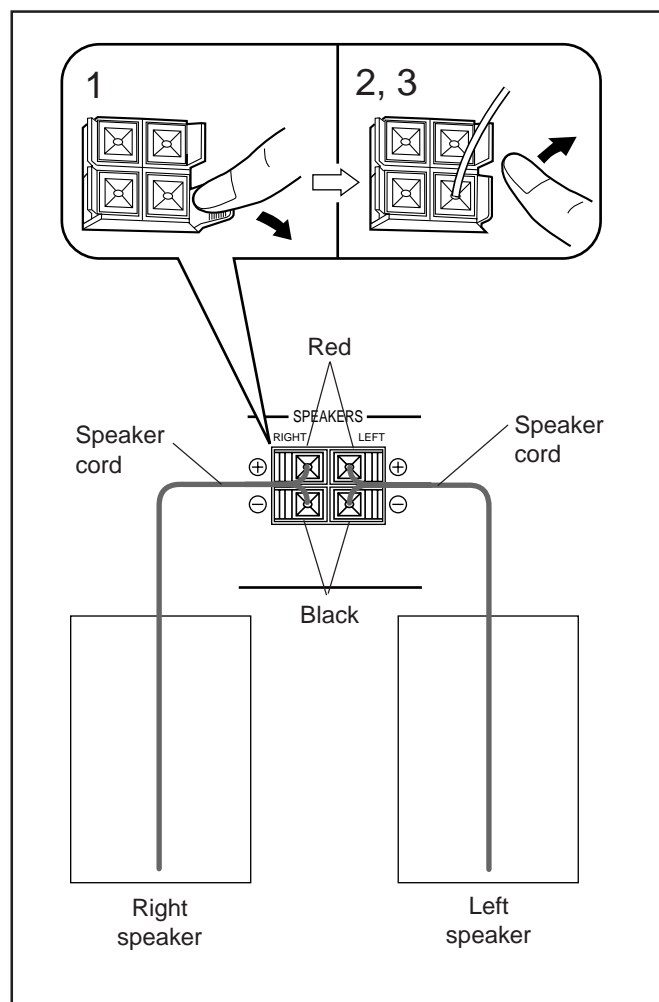


For better reception of both FM and AM

- 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

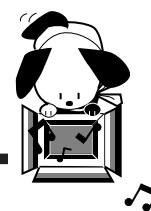
You can connect a pair of the front speakers.



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

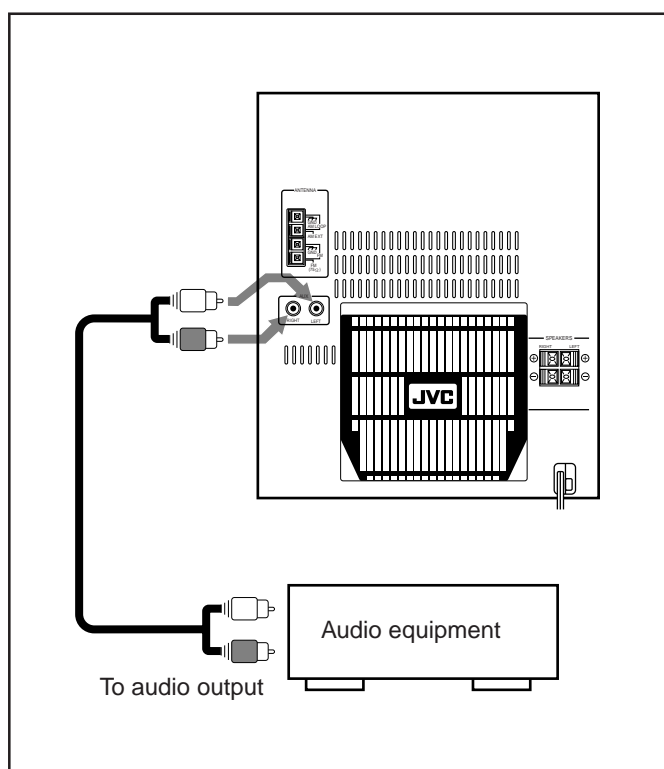
You can connect an audio equipment — used only as a playback device.
When you connect and use this equipment, refer also to its manual.

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.



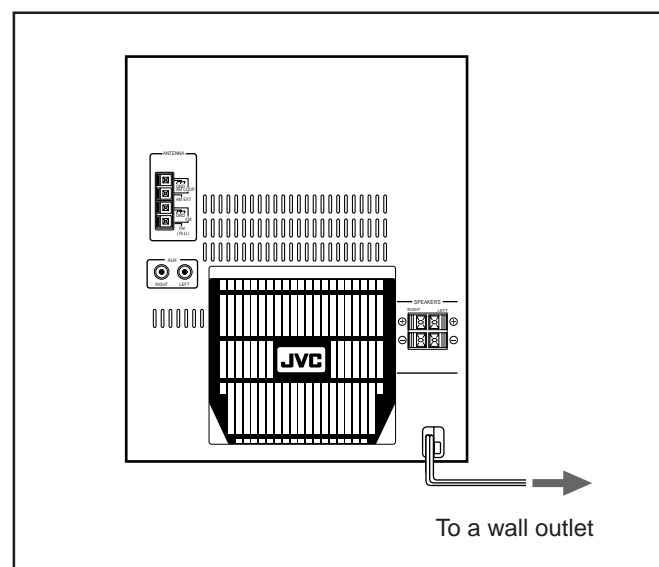
- DO NOT connect any equipment while the power is on.
- DO NOT plug in any equipment until all connections are complete.

To connect audio equipment



Connect the audio output jacks on the other equipment and the AUX jacks on the rear, using an audio cord (not supplied).

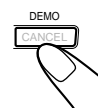
NOW, you can plug in the unit and other connected equipment FINALLY!



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 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.



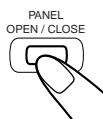
Common Operations

Setting the Clock

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

1 Press PANEL OPEN/CLOSE.

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

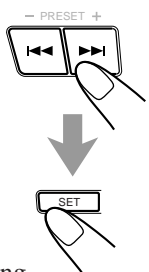
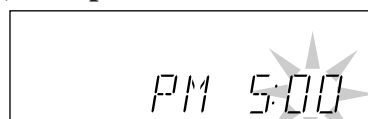


2 Press TIMER/CLOCK.



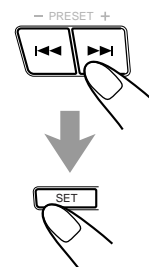
The hour digits start flashing on the display.

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



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

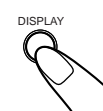
4 Press ◀◀ or ▶▶ to adjust the minute, then press SET.



To check the clock time

Press DISPLAY while playing any source.

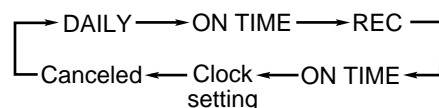
- Each time you press the button, the source indication and the clock time alternate on the display.



To adjust the clock again

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

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



(The hour digits start flashing.)



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.

Turning On the Power and Selecting the Sources

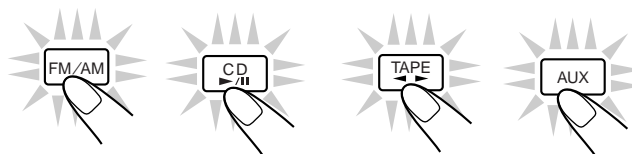
When you press the play button for a particular source (FM/AM, CD ▶/II, AUX, and TAPE ◀▶), the unit turns on, and the Powered Rolling Panel opens automatically (and the unit starts playing the source if it is ready — COMPU PLAY CONTROL).

To listen to the FM/AM broadcasts, press FM/AM. (See page 11.)

To play back CDs, press CD ▶/II. (See pages 12 – 14.)

To play back tapes, press TAPE ◀▶. (See page 15.)

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



To turn on the unit without playing, press POWER so that the STANDBY lamp goes off.

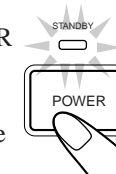


The Powered Rolling Panel opens automatically.

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



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 11) will be erased in a few days.

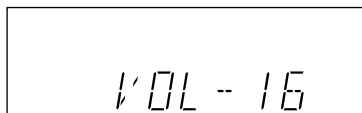
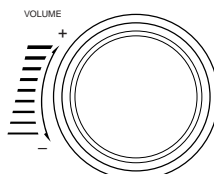




Adjusting the Volume

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

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



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



For private listening

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



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

To turn down the volume level temporarily

Press **FADE MUTING** on the remote control.



VOL - 16



VOL - 0

To restore the sound, press the button again.

Reinforcing the Bass Sound

The richness and fullness of the bass sound is maintained regardless of how low you set the volume. You can use this effect only for playback.

To get the effect, press **ACTIVE BASS EX.** so that the **ACTIVE BASS EX.** lamp (the button itself) lights up on the unit.



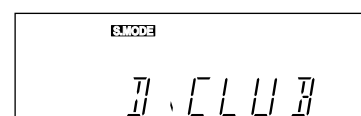
The **A. BASS EX** indicator also lights up on the display.

To cancel the effect, press the button again so that the lamp goes off.

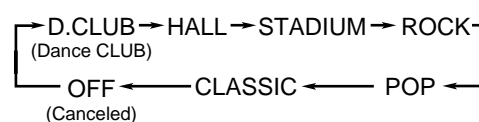
Selecting the Sound Modes

You can select one of the 6 preset sound modes (3 surround modes and 3 SEA – Sound Effect Amplifier – modes). The sound modes can be applied only to playback sounds, and cannot be used for recording.

To select the sound modes, press **SOUND MODE** until the sound mode you want appears on the display. The **S. MODE** indicator also lights up on the display.



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



Surround modes:

D.CLUB: Increases resonance and bass.

HALL: Adds depth and brilliance to the sound.

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

SEA modes:

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

POP: Good for vocal music.

CLASSIC: Good for classical music.

OFF: Cancels the sound mode.



Listening to FM and AM Broadcasts



Tuning in a Station

On the unit ONLY:

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.

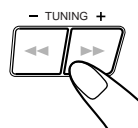
- Each time you press the button, the band alternates between FM and AM.



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

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

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



To stop during searching, press TUNING - / +.



When you press TUNING - / + 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

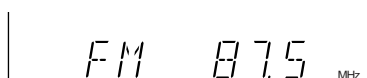
You can preset 30 FM and 15 AM stations.

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.

1 Tune in the station you want to preset.

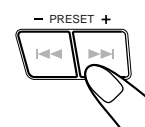
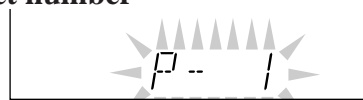
- See "Tuning in a Station" above.



2 Press SET.



3 Press PRESET - / + to select a preset number



4 Press SET again.



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:

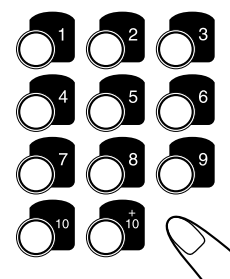
Press the number buttons.

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.





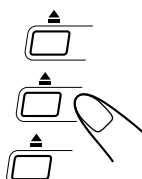
Playing Back CDs

Continued

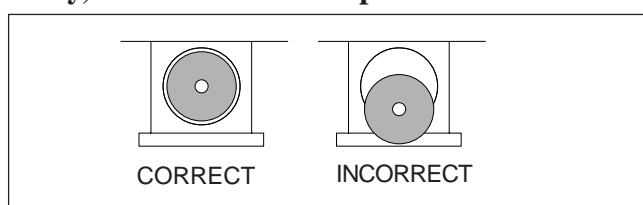
Loading CDs

- 1 Press for the disc tray (CD 1 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.



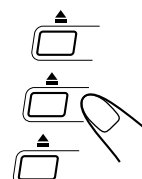
- 2 Place a disc correctly on the circle of the disc tray, with its label side up.**



- 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 number indicator (CD 1 to CD 3) lights up on the display.



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



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.



About the disc indicators

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



- The disc marker lights up for the disc number you have selected.
- The disc indicator 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.

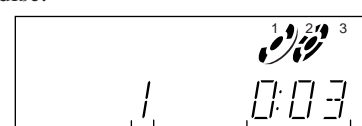
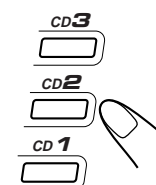
Playing Back the Entire Discs — Continuous Play

You can play CDs continuously.

- 1 Load CDs.**

- 2 Press one of the disc number buttons (CD 1, CD 2, and CD 3) for the disc you want to play.**

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



Track number

Elapsed playing time

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

To stop during play, press .

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



CD playback sequence

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

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

Basic CD Operations

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

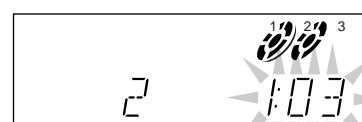
To exchange CDs during playback of another

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 .



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

To resume play, press CD again.



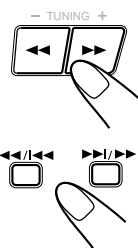


To locate a particular point in a track

During play, press and hold ◀◀ or ▶▶.

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

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

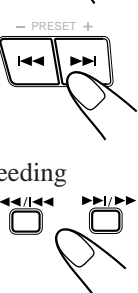


To go to another track

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

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

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

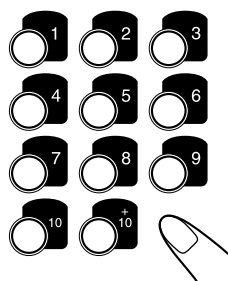


notes If you press and hold ◀◀ / ▶▶ (or ◀◀ / ◀◀ or ▶▶ / ▶▶) before playing, you can change the tracks continuously.

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

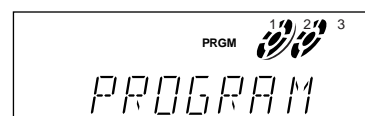
You can arrange the order in which the tracks play before you start playing. You can program up to 32 tracks.

- To use Repeat play for Program play, press REPEAT after starting Program play.

1 Load discs.

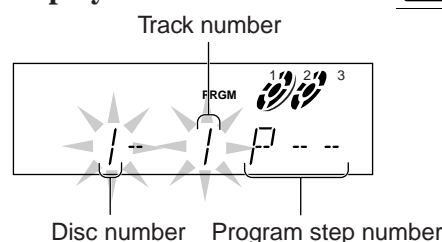
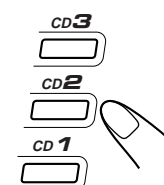
- If the current playing source is not the CD player, press CD ▶/■, then ■ before going to the next step.

2 Press PROGRAM.



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

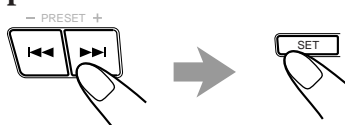
3 Press one of the disc number buttons (CD 1, CD 2, and CD 3) to select the disc number you want to play.



4 Select a track from the CD selected in the above step.

On the unit:

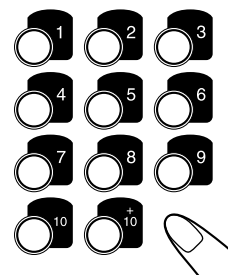
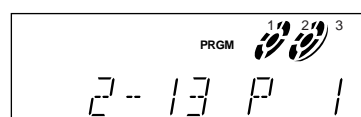
Press ◀◀ or ▶▶ to select the track number, then press SET.



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 ▶/■.

The tracks are played in the order you have programmed.





To stop during play, press ■.

To exit from program play mode, press PROGRAM again before or after play so that the unit enters Continuous 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

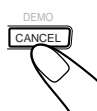
Before playing, you can check the program contents by pressing ◀◀/▶▶ or ▶▶/▶▶ on the remote control.

- ▶▶/▶▶: Shows the programmed tracks in the programmed order.
- ◀◀/▶▶: Shows them in the reverse order.

To modify the program

Before play, you can erase the programmed tracks shown on the display by pressing CANCEL.

- Each time you press the button, the programmed 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 13.

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

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



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



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

Playing at Random — Random Play

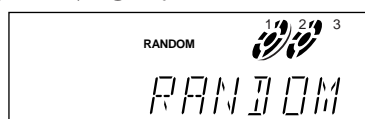
The tracks of all loaded CDs will play at random.

- To use Repeat play for Random play, press REPEAT after starting Random play.

1 Prepare CDs.

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

2 Press RANDOM.



3 Press CD ▶/■.

The tracks are played at random.

Random play ends when all the tracks are played once.



To stop during play, press ■.

- Random play also stops when one of the disc trays is opened.

To exit from Random play mode, press RANDOM again before or after play so that the unit enters Continuous play mode.



Even if you press ◀◀ (or ◀◀/▶▶ on the remote control).

You cannot go back to the previous tracks during Random play.

- If you press ▶▶/▶▶ (or ▶▶/▶▶ on the remote control), you can go to next random tracks.

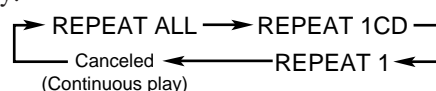
Repeating Tracks or CDs — Repeat Play

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: 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 press PROGRAM or RANDOM.

Prohibiting Disc Ejection — Tray Lock

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

- 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.



If you try to eject CDs

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



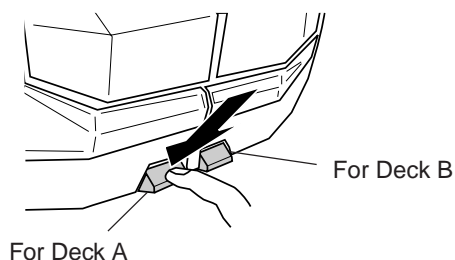
Playing Back Tapes



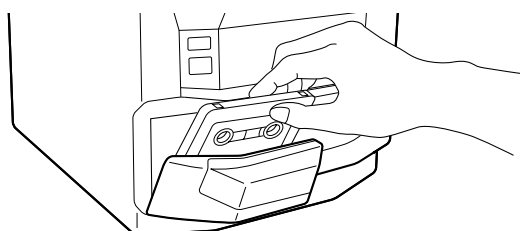
You can play back type I, type II, and type IV tapes without changing any settings.

Playing Back a Tape

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



- 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 DECK A/B (or TAPE A or TAPE B on the remote control).

- 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 DECK A/B (or TAPE A or TAPE B on the remote control), then TAPE ◀▶.

To fast wind to the left or to the right, press ◀◀ / ▶▶ (◀◀ / ◀ or ▶▶ / ▶ 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 — → ←



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.

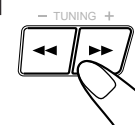
Locating the Beginning of a Song — Music Scan

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.

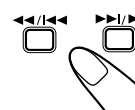
To find the beginning of the current song

During play, press ◀◀ / ▶▶ (◀◀ / ◀ or ▶▶ / ▶ 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 and quickly alternately.



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 ◀◀ / ▶▶ (◀◀ / ◀ or ▶▶ / ▶ 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.



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.



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

Continued 

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. 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 and/or the active bass extension effect 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.

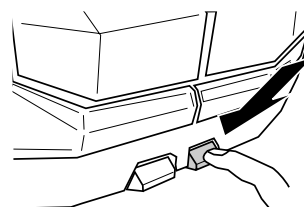
To re-record on a protected tape, cover the holes with adhesive tape.

When using type II tape, be careful not to cover the holes used to detect the tape type.



Recording Tapes 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 17).
- When the source is deck A, you can also use the dubbing method. (See “Dubbing Tapes” on page 17.)

* See “To record an AM station – Beat Cut” on page 17.

6 Start recording.

On the unit:

Press REC START/STOP.

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

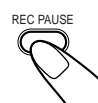
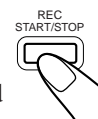
On the remote control:


1) Press REC PAUSE.

The **REC** indicator starts flashing on the display.

2) Press TAPE .

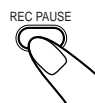
The **REC** indicator stops flashing and remains lit, and recording starts.



To stop during recording, press REC START/STOP again or  on the remote control).



To stop recording temporarily (except when the playback source is deck A), press REC PAUSE on the remote control.



To resume recording, press TAPE ◀▶.

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 — → ←

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 repeatedly, while recording, until the beats are reduced.



- 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.



To stop during dubbing, press ■.

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

To record on both sides — Reverse Mode

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

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

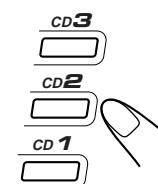
CD Direct Recording

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.

3 Press one of the disc number buttons (CD 1 to CD 3) to select the disc, then ■.



4 Press CD REC START.

“CD REC” appears, and the REC 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 ■.

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 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 — → ←



Using the Timers

Continued

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.

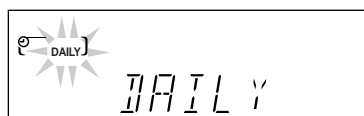
How Daily Timer actually works

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 TIMER/CLOCK repeatedly and start from step 1 again.)

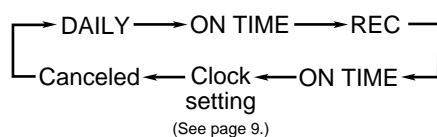
On the unit ONLY:

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



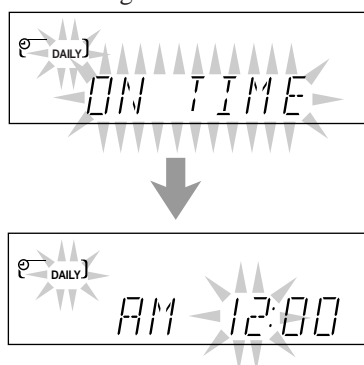
The DAILY indicator also starts flashing on the display.

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



- 2 Press **TIMER/CLOCK** again.

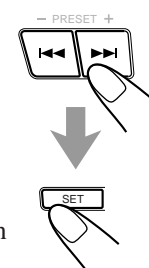
“ON TIME” appears for 2 seconds, then the unit enters on-time setting mode.



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

- 1) Press **◀◀** or **▶▶** to set the hour, then press **SET**.
- 2) Press **◀◀** or **▶▶** to set the minute, then press **SET**.

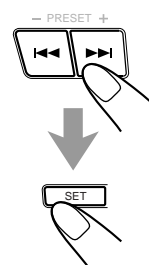
“OFF TIME” appears for 2 seconds, then the unit enters off-time setting mode.



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

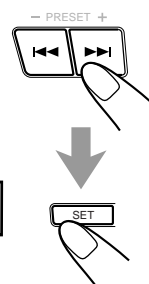
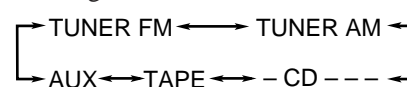
- 1) Press **◀◀** or **▶▶** to set the hour, then press **SET**.
- 2) Press **◀◀** or **▶▶** to set the minute, then press **SET**.

The unit enters source selecting mode.



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

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



TUNER FM: tunes 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.

- Make sure there is a CD on the selected disc number tray.

TAPE: plays a tape in deck A or B. → go to step 7.

- 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.

AUX: plays an external source. → go to step 7.

- To use this setting, the external component has to be equipped with the timer function.

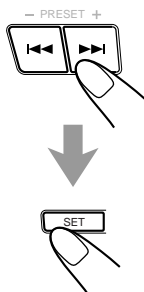


6 When selecting “- CD - - -”

- 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 four levels. 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 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 TIMER/CLOCK repeatedly until “DAILY” appears on the display.
- 2 To turn off the Daily Timer, press CANCEL. The DAILY indicator goes off from the display. 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 indicator lights up on the display. The settings you have done are shown on the display in sequence for your confirmation.



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 “0,” 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 TIMER/CLOCK repeatedly and start from step 1 again.)

On the unit ONLY:

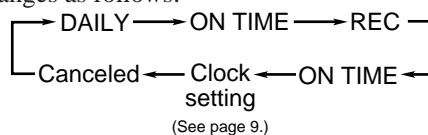
1 Put a recordable cassette into deck B.

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

The REC indicator also starts flashing on the display.



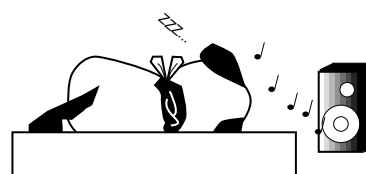
- Each time you press the button, the timer setting mode changes as follows:



3 Press TIMER/CLOCK again.

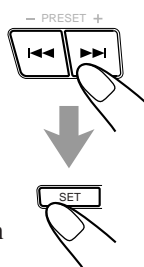
“ON TIME” appears for 2 seconds, then the unit enters on-time setting mode.





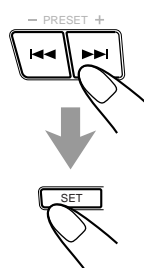
4 Set the on-time you want the unit to turn on.

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



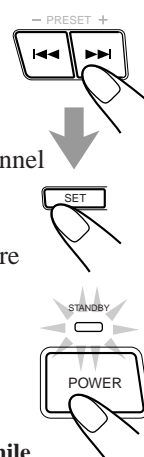
5 Set the off-time you want the unit to turn off (on standby).

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



6 Select the preset station.

- 1) Press **◀◀** or **▶▶** to select the band (“TUNER FM” or “TUNER AM”), then press **SET**.
- 2) Press **◀◀** or **▶▶** to select a preset channel number, then press **SET**.
The REC 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 **TIMER/CLOCK** repeatedly until “REC” appears on the display.



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



The REC 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 indicator lights up on the display. The settings you have done are shown on the display in sequence for your confirmation.



Using Sleep Timer

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

How Sleep Timer actually works

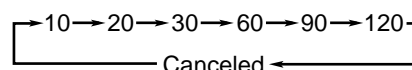
The unit automatically turns off after the specified time length passes.

On the remote control ONLY:

1 Press SLEEP.

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

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



2 Wait for about 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.

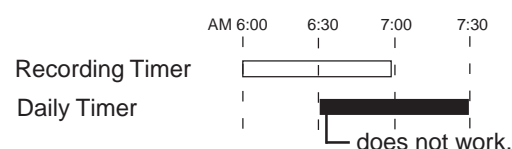
- Sleep Timer is also canceled when you turn off the unit.

Timer Priority

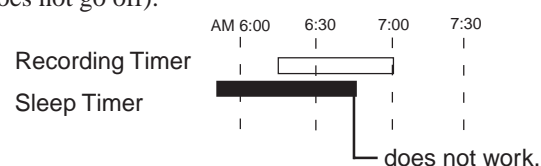
Since each timer can be set separately, you may wonder what happens if the setting for these timers overlaps. Here are examples.

- **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.



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).





Maintenance

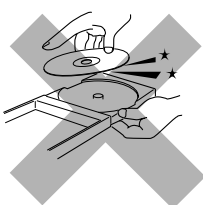


To get the best performance of the unit, keep your discs, tapes, and mechanism clean.

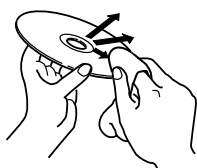
Handling discs



- 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.



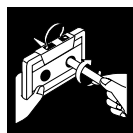
To clean the disc

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

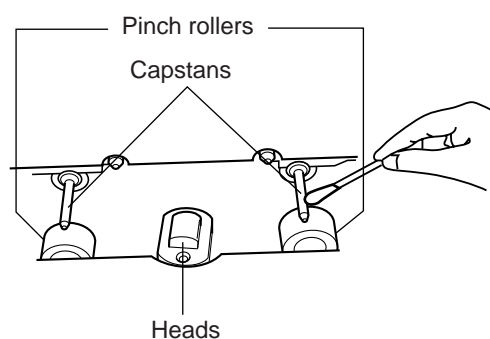
Cassette decks

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.



To demagnetize the heads

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





Troubleshooting



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

Symptom	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.	<ul style="list-style-type: none">Antennas are disconnected.The AM loop antenna is too close to the unit.The FM antenna is not properly extended and positioned.	<ul style="list-style-type: none">Reconnect the 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 21.)
The disc tray does not open or close.	<ul style="list-style-type: none">The AC power cord is not plugged in.Trays are locked.	<ul style="list-style-type: none">Plug the AC power cord.Unlock the trays. (See page 14.)
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 unit.	<ul style="list-style-type: none">The path between the remote control unit and the remote sensor on the unit is blocked.The batteries are exhausted.	<ul style="list-style-type: none">Remove the obstruction.Replace the batteries.

Specifications

Design and specifications are subject to change without notice.



Amplifier section – CA-MXJ30

Output Power

100 watts per channel, min. RMS, driven into 6 ohms at 1 kHz with no more than 10% total harmonic distortion.

Audio input sensitivity/Impedance (at 1 kHz)

AUX: 300 mV/50 kohms

Speakers/Impedance: 6 – 16 ohms

Tuner

FM tuning range: 87.5 – 108.0 MHz

AM tuning range: 530 – 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 — 14,000 Hz

CrO₂ (type II): 50 — 14,000 Hz

Metal (type IV): 50 — 14,000 Hz (only for playback)

Wow and flutter

0.15% (WRMS)

General

Power requirement: AC 120 V_~, 60 Hz

Power consumption: 95 watts / 120 VA (at operation)
16 watts (on standby)

Dimensions (approx.): 265 x 315 x 341 mm (W/H/D)
(10⁷/₁₆ x 12⁷/₁₆ x 13⁷/₁₆ in.)

Mass (approx.): 8.3 kg (18.3 lbs)

Supplied accessories

See page 6.

Speaker section — SP-MXJ30

Type: 2-way bass-reflex type

Speaker units: Woofer: 15 cm (5¹⁵/₁₆") cone x1
Tweeter: 5.0 cm (2") cone x1

Power handling capacity: 100 watts

Impedance: 6 ohms

Frequency range: 45 Hz — 22,000 Hz

Sound pressure level: 88 dB/w•m

Dimensions (approx.): 215 x 315 x 230 mm (W/H/D)
(8¹/₂ x 12⁷/₁₆ x 9¹/₁₆ in.)

Mass (approx.): 3.3 kg (7.3 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

107 Little Falls Road
Fairfield, NJ 07004-2105
(973) 808-9279

1500 Lakes Parkway
Lawrenceville, GA 30243-5857
(770) 339-2522

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*

(1098)



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:

- 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 or serial number has been altered, tampered with, defaced or removed;
- Initial installation and installation and removal for repair;
- Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
- Damage that occurs in shipment, due to act of God, and cosmetic damage;
- Signal reception problems and failures due to line power surge;
- Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus(Needle) are covered for 90 days from the date of purchase;
- Accessories;
- 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
DIVISION OF JVC AMERICAS CORP.

1700 Valley Road
Wayne, NJ 07470

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAILS OF REFURBISHED PRODUCT 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: _____

