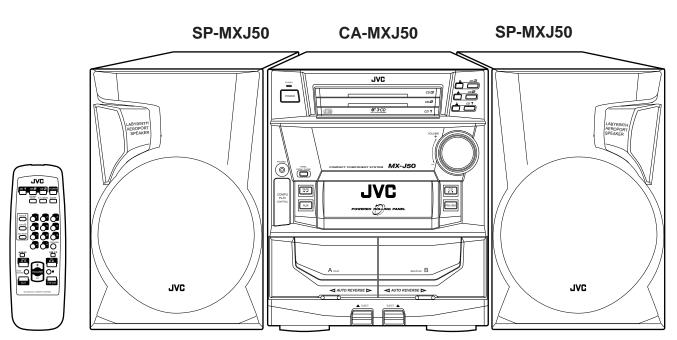


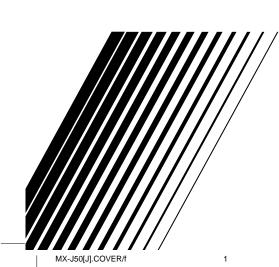
COMPACT COMPONENT SYSTEM

MX-J50

Consists of CA-MXJ50 and SP-MXJ50.







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.

GVT0012-001C

[J

Warnings, Cautions and Others



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.

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

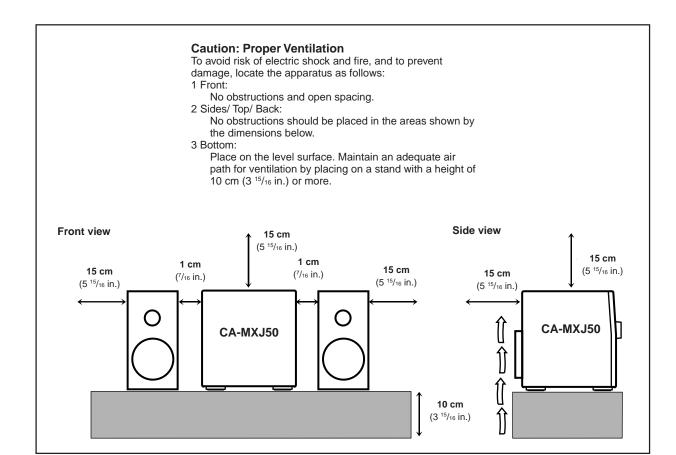
-G-1-

MX-J50[J].Safety/f 99.2.1, 3:57 PM













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 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

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.





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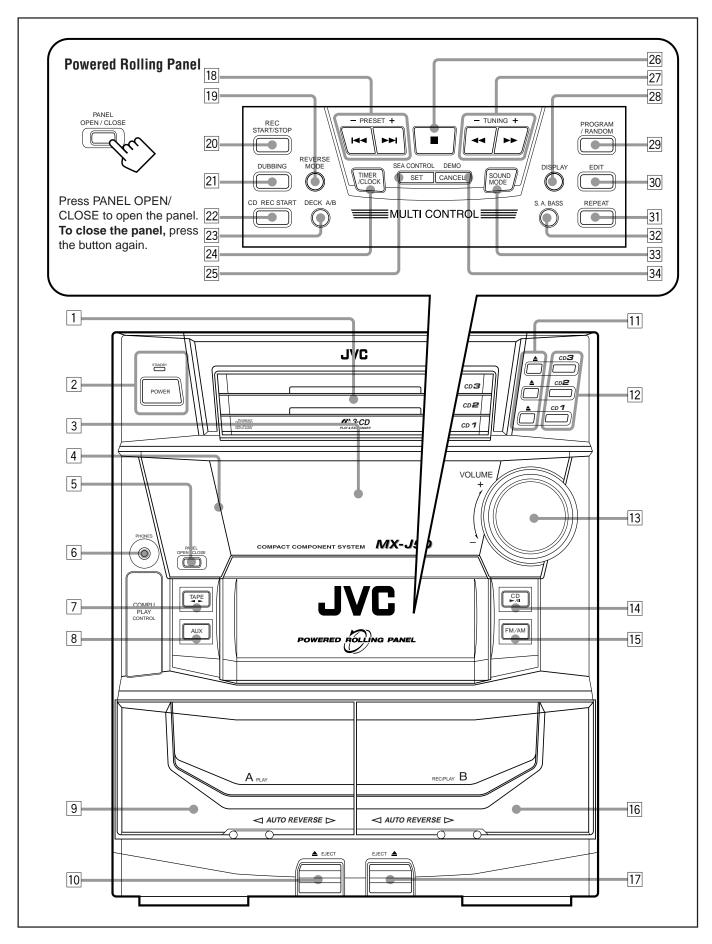
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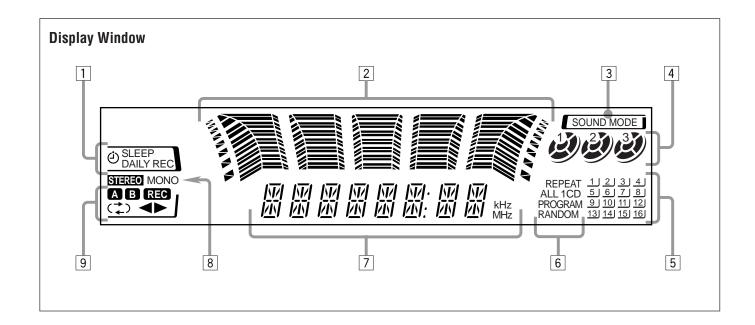




Location of the Buttons and Controls

Become familiar with the buttons and controls on your unit.





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 (16)

 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 (16)
- 10 ▲ EJECT button for deck A (16)
- 11 (CD tray open/close) buttons (13)

 Pressing one of these buttons also turns on the unit.
- Disc number buttons and lamps (CD 1, CD 2, and CD 3) (13)
 - Pressing one of these buttons also turns on the unit.
- 13 VOLUME control (10)
- [14] CD ►/II (play/pause) button and lamp (13) *Pressing this button also turns on the unit.*
- [15] FM/AM button and lamp (12)

 Pressing this button also turns on the unit.
- 16 Deck B cassette holder (17)

Powered Rolling Panel

- PRESET / + buttons (12)

 |◄◄ / ▶► | (reverse search/forward search) buttons (9, 11, 14, 19, 20)
- 19 REVERSE MODE button (16, 18, 19)
- REC START/STOP button (17, 19)
- 21 DUBBING button (18)
- 22 CD REC START button (18, 19)

- 23 DECK A/B button (16)
- 24 TIMER/CLOCK button (9, 20)
- 25 SET button (9, 20) SEA CONTROL button (11)
- 26 (stop) button (13, 16)
- 27 TUNING / + buttons (12)
 - ✓ / ►► (fast left/fast right) buttons (11, 14, 16)
- 28 DISPLAY button (9)
- 29 PROGRAM/RANDOM button (14, 15, 18)
- 30 EDIT button (19)
- [31] REPEAT button (15)
- 32 S. A. BASS (Signal Adaptive Bass) button and lamp (10)
- 33 SOUND MODE button (10)
- 34 CANCEL button (9, 15, 20) DEMO button (8)

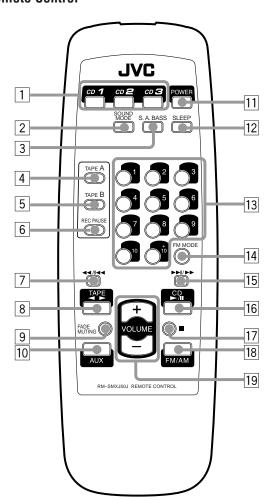
Display window

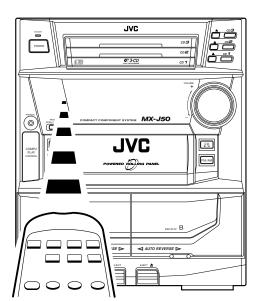
- 1 Timer indicators
 - ②, SLEEP, REC, and DAILY indicators
- 2 Audio level indicator
 - SEA (Sound Effect Amplifier) pattern indicator
- 3 SOUND MODE indicator
- 4 Disc indicators
- 5 CD track number indicators
- 6 CD play mode indicators
 - REPEAT (ALL/1CD/1), PROGRAM, and RANDOM indicators
- 7 Main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





Remote Control





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

Remote Control

- Disc number buttons (CD 1, CD 2, and CD 3) (13) *Pressing one of these buttons also turns on the unit.*
- 2 SOUND MODE button (10)
- 3 S. A. BASS (Signal Adaptive Bass) button (10)
- 4 TAPE A button (16)
- 5 TAPE B button (16)
- 6 REC PAUSE button (17)
- $\boxed{7}$ \blacktriangleleft / \blacktriangleleft (fast left/reverse search) button (14 16)
- 8 TAPE **◆ ▶** button (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 POWER button (9)
- 12 SLEEP button (22)
- 13 Number buttons (12, 14)
- 14 FM MODE button (12)
- 15 $\blacktriangleright \blacktriangleright 1/ \blacktriangleright \blacktriangleright$ (forward search/fast right) button (14 16)
- 16 CD ►/II button (13)

 Pressing this button als

Pressing this button also turns on the unit.

- 17 (stop) button (13, 16)
- 18 FM/AM button (12)

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.

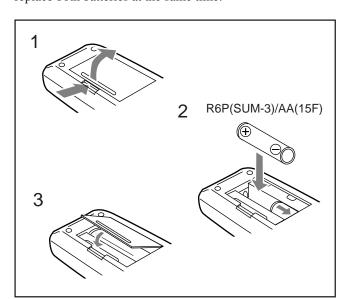
- AM loop antenna (1)
- FM antenna (1)
- Remote control (1)
- Batteries (2)

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.

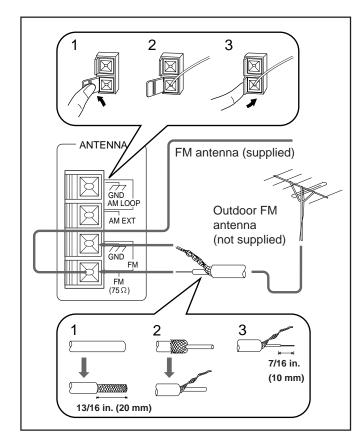




- DO NOT use an old battery together with a new one.
- DO NOT use different types of batteries together.
- DO NOT expose batteries to heat or flame.
- DO NOT leave the batteries in the battery compartment when you are not going to use the remote control for an extended period of time.
 Otherwise, it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

Connecting Antennas

FM antenna



Extend the FM antenna (supplied) horizontally.

otes

If reception is poor, connect the outdoor antenna

Connect the outdoor antenna.

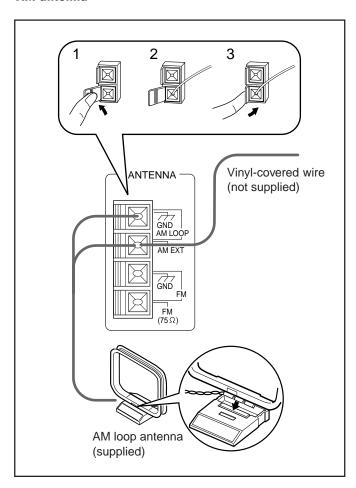
Before attaching a 75-ohm coaxial cable (the kind with a round wire going to an outdoor antenna), disconnect the supplied FM antenna.

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.)

notes

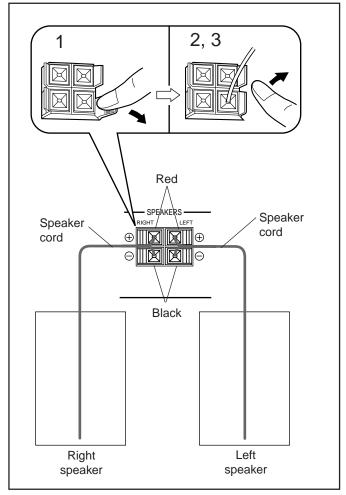
For better reception of both FM and AM

- 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

You can connect a pair of front speakers, and one subwoofer.

To connect 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.

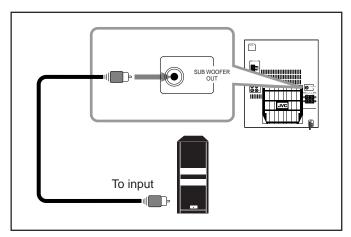
IMPORTANT: Use only speakers with the same speaker impedance as indicated by the speaker terminals on the rear of the unit.





To connect a subwoofer

By connecting a subwoofer, you can enhance the bass.



Connect the input jack of a powered subwoofer to the SUB WOOFER OUT jack, using a monaural audio cord (not supplied).

Connecting Other Equipment

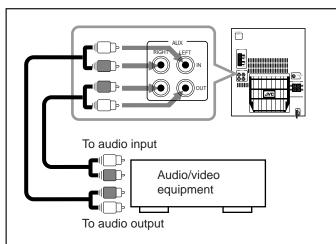
You can connect both analog and digital equipment.



- 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.

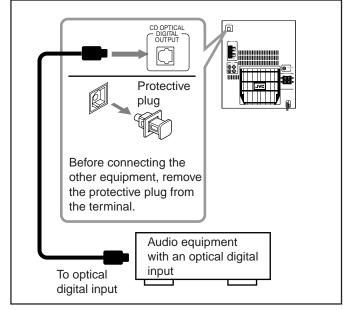


By using audio cords (not supplied), connect:

- Between the audio input jacks on the other equipment and AUX OUT jacks: For recording on the other equipment.
- Between the audio output jacks on the other equipment and AUX IN jacks: For playing the other equipment.

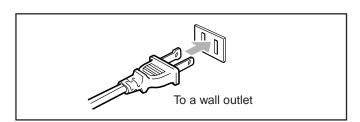
To connect audio equipment with an optical digital input terminal

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 the remote control.

To start the display demonstration manually Press and hold DEMO for more than 2 seconds. $$^{\text{DEMO}}$$

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.

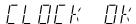




• If you want to correct the hour after pressing SET, press CANCEL. The hour digits start flashing again.



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







To check the clock time

Press DISPLAY while playing any source.

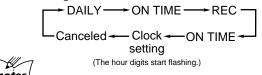
 Each time you press the button, the source indication and the clock time alternate on the display.



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:



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

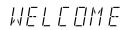
When you press the play button for a particular source (FM/AM, CD ►/II, AUX, and TAPE ◀ ►), the unit turns on, and the Powered Rolling Panel opens automatically (and the unit starts playing the source if it is ready — COMPU PLAY CONTROL).

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



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.

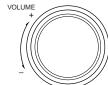
When you unplug the AC power cord or if a power failure occurs

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

Adjusting the Volume

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

Turn VOLUME clockwise to increase the volume or counterclockwise to decrease



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



For private listening

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



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

To turn down the volume level temporarily

Press FADE MUTING on the remote control. The volume level gradually decreases to "0."



To restore the sound, press the button again.

Reinforcing the Bass Sound

The Signal Adaptive Bass function provided for this unit can enhance the bass sound and reduce the bass sound distortion while listening to any source at low volume. You can use this function only for playback.

To turn on the function, press S. A. BASS repeatedly until "SA-BASS1" or "SA-BASS2" appears on the display.



The S. A. BASS lamp (the button itself) also lights up.

• Each time you press the button, the Signal Adaptive Bass level applied to the playback sound changes as follows:



When you select "SA-BASS2," the bass sound level is enhanced much more than when you select "SA-BASS1."

• While playing back some sources, the level difference between "SA-BASS1" and "SA-BASS2" may not be distinct.

To turn off the function, press the button repeatedly until "OFF" appears on the display.



If you want to check the Signal Adaptive Bass level currently selected

While the S. A. BASS lamp is lit, press S. A. BASS once so that the current level appears for a while.

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 SOUND 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.

Manual modes:

MANUAL1/2/3:

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.

11



Current level appears.

2 Adjust the SEA pattern.

Press | ◄ or ▶ I 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.



- 3) Repeat steps 1) and 2) to adjust the level of the other frequency ranges.
- **3** Press SEA CONTROL again.



- **4** Press | **◄** or **▶** l 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.





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



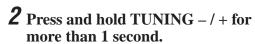
Tuning in a Station

On the unit ONLY:

7 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.



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

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

1 Tune in the station you want to preset.

• See "Tuning in a Station" above.

FM A75

2 Press SET.







4 Press SET again.

SIDREIL



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.

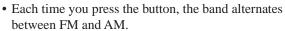
When you unplug the AC power cord or if a power failure occurs

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.



2 Select a preset number. On the unit:

Press PRESET - / +.

On the remote control:

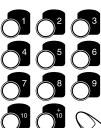
Press the number buttons. For preset number 5, press 5.

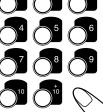
For preset number 15, press +10 then 5.

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

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





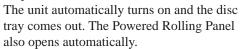




Playing Back CDs

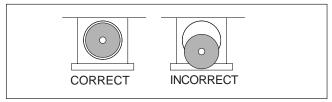
Loading CDs

1 Press **△** for the disc tray (CD 1 to 3) you want to load a CD onto.





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 \triangle 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.



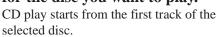
- The disc marker lights up for the disc number you have selected.
- The disc indicator flashes while the corresponding CD is being played.
- The disc indicator goes off when the unit has detected that there is no CD on the corresponding disc tray.

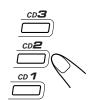
Playing Back the Entire Discs — Continuous Play

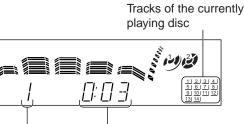
You can play CDs continuously.

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.







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 \triangle for the corresponding disc tray.



CD playback sequence

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

- When CD 1 is pressed : CD 1 \Rightarrow CD 2 \Rightarrow CD 3 (then stops)
- When CD 2 is pressed : CD 2 \Rightarrow CD 3 \Rightarrow CD 1 (then stops)
- When CD 3 is pressed : CD 3 \Rightarrow CD 1 \Rightarrow 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 ▶/II

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

To resume play, press CD ▶/II again.

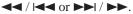


To locate a particular point in a track

During play, press and hold ◀◀ or ▶▶.

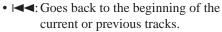
- **◄** : Fast reverses the disc.
- ▶► : Fast forwards the disc.

When using the remote control, press and hold



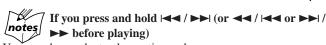


Press I or ▶► repeatedly before or during playback.

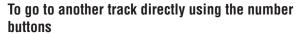


• >>I: Skips to the beginning of the next or succeeding tracks.

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

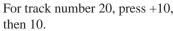


You can change the tracks continuously.

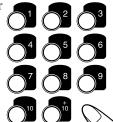


Pressing the number button(s) before or during play allows you to start playing the track number you want.

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



For track number 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 discs.

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

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



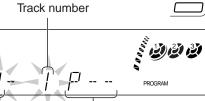
• If a program has been stored in memory, the program is called up.

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

> → Random Play Program Play -- Continuous Play -

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





Program step number Disc number

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

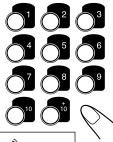
On the unit:

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.

b 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.)



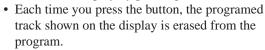
To check the program contents

Before playing, you can check the program contents by pressing \blacktriangleleft / \blacktriangleleft or \triangleright | / \triangleright on the remote control.

- ▶►I / ▶►: Shows the programed tracks in the programed order.
- **\|** / **| \|**: Shows them in the reverse order.

To modify the program

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



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.

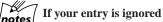
To erase the entire program before or after play, press ■. "PROGRAM" appears on the display.

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



If you try to program a 33rd step

"FULL" will appear on the display.



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.

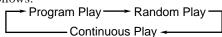
7 Prepare CDs.

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

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

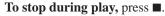


• Each time you press the button, CD play mode changes as follows:



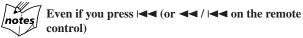
3 Press CD ►/II.

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



· 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.



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

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

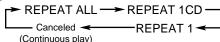
Repeating Tracks or CDs — Repeat Play

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



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

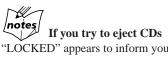
You can prohibit CD ejection from the unit and can lock discs.

• This operation is possible only using the buttons on the

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

To cancel the prohibition and unlock the CDs, press \triangle for any disc tray while holding ■.

"UNLOCKED" appears for a while, and the loaded CDs are unlocked.



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

– 15 –

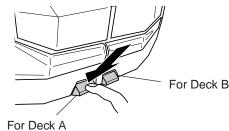
Playing Back Tapes



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.



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



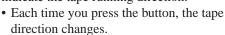
3 Close the cassette holder gently.

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 $(\blacktriangleleft \blacktriangleright)$ starts flashing slowly to indicate the tape running direction.



- ► : 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 $\triangleleft \triangleleft / \triangleright \triangleright$ ($\triangleleft \triangleleft / \bowtie \triangleleft$ or $\triangleright \triangleright | / \triangleright \triangleright$ on the remote control) while the tape is not running.

The tape direction indicator $(\blacktriangleleft \blacktriangleright)$ starts flashing quickly on the display.

To remove the cassette, press \triangle EJECT for deck A or EJECT \triangle 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

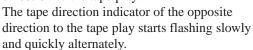
After the reverse (◄) side of the tape finishes playing, the tape in the other deck starts playing.

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.



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 44/44 or 44

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 pinchrollers and the capstans.

Recording

IMPORTANT:

- · It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic embodied
- 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 Signal Adaptive Bass 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

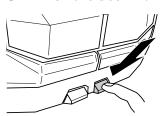
When using type II tape, be careful not to cover the holes used to detect the tape type.





Recording Tapes on Deck B

7 Press EJECT \triangle for the deck B.



- **Z** 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
 - 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.

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).





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

REC PAUSE

To resume recording, press TAPE **▼** ►.

To remove the cassette, press EJECT \triangle 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/RANDOM repeatedly, while recording, until the beats are reduced.



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

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 $\triangleleft \triangleright$, then \blacksquare .
- **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 \triangle EJECT for deck A and EJECT \triangle 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

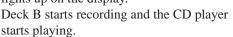
Everything on the CD goes onto the tape in the order it is on the CD, or according to the order you have made for Program play.

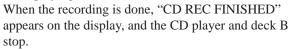
- **1** Put a recordable cassette into deck B.
- **2** Place a disc correctly on the circle of the disc tray, with its label side up.
- **3** Press one of the disc number buttons (CD 1 to CD 3) to select the disc, then ■.



4 Press CD REC START.

"CD REC" appears, and the **REC** indicator lights up on the display.





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 (\blacktriangleleft) , 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 — —





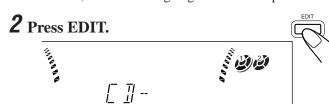


Auto Edit Recording

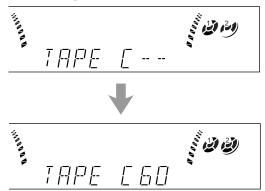
By using Auto Edit Recording, you can record the CD tracks to fit the tape. Auto Edit Recording makes a program by selecting the CD tracks in numerical order. However, to prevent the end of the last track on the front side from being cut off, the last track is selected so as to fit on the remaining tape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

On the unit ONLY:

- 1 Place a disc correctly on the circle of the disc tray, with its label side up.
 - If the current playing source is not the CD player, press CD ▶/II, then before going to the next step.



3 Press the disc number button (CD 1 to CD 3) for the disc you want to record from.

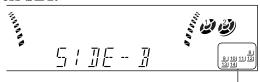


The optimum tape length for the disc appears.

To change the tape length manually

If the tape length selected is not satisfactory, you can change the tape length by pressing |◄◀ or ►►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.



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** indicator lights up on the display.

Deck B starts recording then, about 10 second 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 ■ 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.)

OR

• Press REC START/STOP. No 4-second blank portion is created on the recorded tape.

To cancel Auto Edit Recording;

- Press PROGRAM/RANDOM before or after play. (The unit enters Program, Random, or Continuous Play mode.)
 OR

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

Using the Timers

Continued

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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

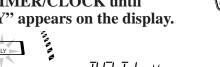
The unit automatically turns on, set the volume level to the preset level, and starts playing the specified source when the on-time comes (the ② indicator flashes just before the ontime, and continues flashing while the timer is operating). Then, when the off-time comes ("OFF" flashes just before the 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.



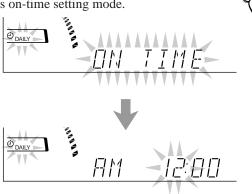
The DAILY indicator also starts flashing on the display.

• Each time you press the button, the timer setting modes change 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 ▶►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 | ◀ or ▶ I 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 **▶** l to select the source to play, then press SET.

• Each time you press I or ►►I, the source changes as follows:

TUNER FM-



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

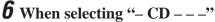
TAPE: plays a tape in deck A or B. \rightarrow go to step 7.

- 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.

- 20 –



- Press | ◀ or ▶ I to select the disc number, then press SET.
- 2) Press | ◀ or ▶ I to set the track number, then press SET.

The unit enters volume setting mode.

When selecting "TUNER FM" or "TUNER AM"

Press I or ▶►I to select the preset station number, then press SET.

The unit enters volume setting mode.

7 Press | ◀ or ▶ ► | to set the volume \(\)

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



8 Press SET to complete the Daily Timer setting.

been turned off.

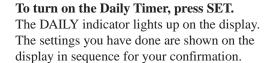
The DAILY indicator stops flashing and remains lit. The settings you have done are shown on the display in sequence.

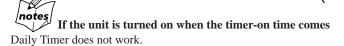
9 Press POWER to turn off the unit (on standby) if you have set the Daily Timer with the unit turned on.



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.





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 ② 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.





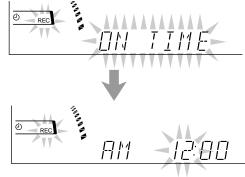
• Each time you press the button, the timer setting modes change as follows:



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 ▶ I 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.



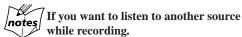
6 Select the preset station.

- 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 indicator stops flashing and remains lit. The settings you have done are



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

shown on the display in sequence.



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.



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

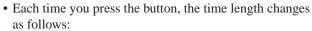
How Sleep Timer actually works

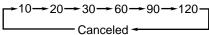
The unit automatically turns off after the specified time length passes.

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.





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.

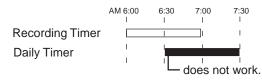
• Sleep Timer is also canceled when you turn off the unit.

Timer Priority

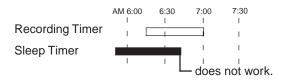
Since each timer can be set separately, you may wonder what happens if the setting for these timers overlaps. Here are examples.

• 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.

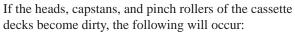


• Be careful not to touch the tape surface.



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

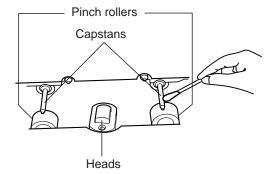
Cassette decks



- 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.	 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 23.)
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 unit.	 The path between the remote control unit and the remote sensor on the unit is blocked. 	Remove the obstruction.
	 The batteries are exhausted. 	 Replace the batteries.

Specifications

Design and specifications are subject to change without notice

Amplifier section — CA-MXJ50

Output Power

 $120\,$ 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: 520 mV/50 kohms

Digital output: CD OPTICAL DIGITAL OUTPUT

Signal wave length: 660 nm Output level: -21 to -15 dBm

 $Speakers/Impedance:\, 6-16\;ohms$

Tuner

FM tuning range: 87.5 - 108.0 MHzAM 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_{\odot} , 60 Hz

Power consumption: 100 watts / 130 VA (at operation)

14 watts (on standby)

Dimensions (approx.): 265 x 315 x 341 mm (W/H/D)

 $(10^{7}/_{16} \times 12^{7}/_{16} \times 13^{7}/_{16} \text{in.})$

Mass (approx.): 9.4 kg (20.7 lbs)

Supplied accessories

See page 6.

Mass (approx.):

Speaker section — SP-MXJ50

Type: 4-way bass-reflex type Labyrinth Aeroport System

Speaker units: Woofer: $16 \text{ cm } (6 \frac{5}{16}) \text{ cone x } 1$

Midrange: 5 cm (2") cone x1 Tweeter: 4 cm (1 $^{5}/_{8}$ ") cone x1 Super tweeter: 2 cm ($^{13}/_{16}$ ") dome x1

Power handling capacity: 120 watts Impedance: 6 ohms

Frequency range: 40 Hz — 28,000 Hz

Sound pressure level: 87 dB/W•m

Dimensions (approx.): 215 x 315 x 273 mm (W/H/D)

(8¹/₂ x 12⁷/₁₆ x 10³/₄ in.) 3.9 kg (8.6 lbs) each







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

5665 Corporate Avenue Cypress, CA 90630-0024 (714) 229-8011

13 Cummings Park Woburn, MA 01801 (781) 376-9100 1500 Lakes Parkway Lawrenceville, GA 30243-5857 (770) 339-2522

2969 Mapunapuna Place Honolulu, HI 96819-2040 (808) 833-5828

8192 State Road 84 Davie, FL 33324 (954) 472-1960 705 Enterprise Street Aurora, IL 60504-8149 (630) 851-7855

10700 Hammerly, Suite 110 Houston, TX 77043 (713) 935-9331

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)

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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.

- This limited warranty provided by JVC <u>does not cover</u>:

 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 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;
- 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 DIVISION OF JVC AMERICAS CORP.

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1700 Valley Road 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 information for future reference.	No. which is located either on the rear, bottom or side of the cabinet. Retain this
iniomation to fatare reference.	
Model No.:	Serial No.:

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