

aiwa

**COMPACT DISC STEREO SYSTEM
SISTEMA ESTÉREO DE DISCOS COMPACTOS
CHAÎNE STEREO AVEC LECTEUR DE DISQUE COMPACT**

XR-M77

**OPERATING INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MODE D'EMPLOI**

En (English)

E (Español)

F (Français)

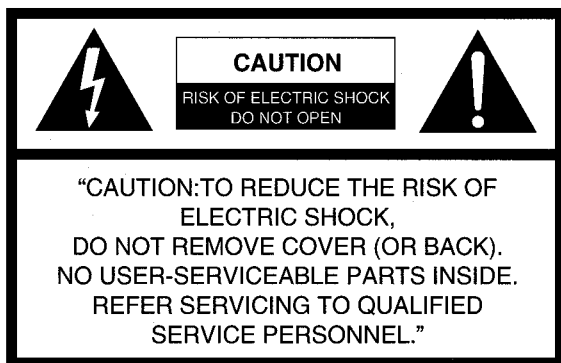
For assistance and information,
call toll free 1-800-BUY-AIWA.
(United States and Puerto Rico)

U

**COMPACT
disc
DIGITAL AUDIO**

WARNING

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



Explanation of Graphical Symbols:



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.

PRECAUTIONS

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

Installation

- 1 **Water and moisture** – Do not use this unit near water, such as near a bathtub, washbowl, swimming pool, or the like.
- 2 **Heat** – Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat. It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).
- 3 **Mounting surface** – Place the unit on a flat, even surface.
- 4 **Ventilation** – The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm (4 in.) clearance from the rear and the top of the unit, and 5 cm (2 in.) from the each side.
 - Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
 - Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.
- 5 **Objects and liquid entry** – Take care that objects or liquids do not get inside the unit through the ventilation openings.
- 6 **Carts and stands** – When placed or mounted on a stand or cart, the unit should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit or cart to overturn or fall.



- 7 **Condensation** – Moisture may form on the CD pickup lens when:
 - The unit is moved from a cold spot to a warm spot
 - The heating system has just been turned on
 - The unit is used in a very humid room
 - The unit is cooled by an air conditioner
 When this unit has condensation inside, it may not function normally. Should this occur, leave the unit for a few hours, then try to operate again.
- 8 **Wall or ceiling mounting** – The unit should not be mounted on a wall or ceiling, unless specified in the Operating Instructions.

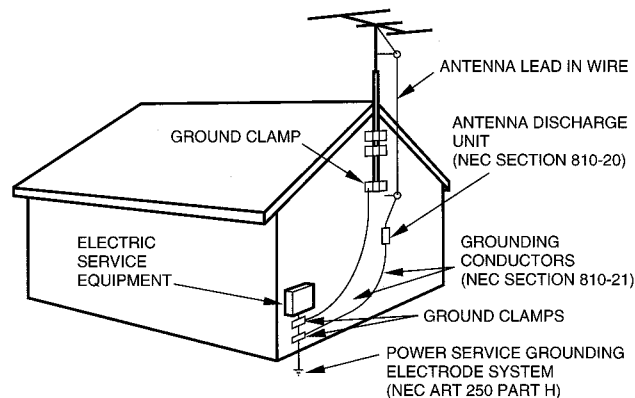
Electric Power

- 1 **Power sources** – Connect this unit only to power sources specified in the Operating Instructions, and as marked on the unit.
- 2 **Polarization** – As a safety feature, some units are equipped with polarized AC power plugs which can only be inserted one way into a power outlet. If it is difficult or impossible to insert the AC power plug into an outlet, turn the plug over and try again. If it still does not easily insert into the outlet, please call a qualified service technician to service or replace the outlet. To avoid defeating the safety feature of the polarized plug, do not force it into a power outlet.
- 3 **AC power cord**
 - When disconnecting the AC power cord, pull it out by the AC power plug. Do not pull the cord itself.
 - Never handle the AC power plug with wet hands, as this could result in fire or shock.
 - Power cords should be routed to avoid being severely bent, pinched, or walked upon. Pay particular attention to the cord from the unit to the power socket.
 - Avoid overloading AC power plugs and extension cords beyond their capacity, as this could result in fire or shock.
- 4 **Extension cord** – To help prevent electric shock, do not use a polarized AC power plug with an extension cord, receptacle, or other outlet unless the polarized plug can be completely inserted to prevent exposure of the blades of the plug.
- 5 **When not in use** – Unplug the AC power cord from the AC outlet if the unit will not be used for several months or more. When the cord is plugged in, a small amount of current continues to flow to the unit, even when the power is turned off.

Outdoor Antenna

- 1 **Power lines** – When connecting an outdoor antenna, make sure it is located away from power lines.
- 2 **Outdoor antenna grounding** – Be sure the antenna system is properly grounded to provide protection against unexpected voltage surges or static electricity build-up. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information on proper grounding of the mast, supporting structure, and the lead-in wire to the antenna discharge unit, as well as the size of the grounding unit, connection to grounding terminals, and requirements for grounding terminals.

Antenna Grounding According to the National Electrical Code



NEC-NATIONAL ELECTRICAL CODE

Maintenance

Clean the unit only as recommended in the Operating Instructions.

Damage Requiring Service

Have the unit serviced by a qualified service technician if:

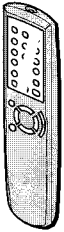
- The AC power cord or plug has been damaged
 - Foreign objects or liquid have gotten inside the unit
 - The unit has been exposed to rain or water
 - The unit does not seem to operate normally
 - The unit exhibits a marked change in performance
 - The unit has been dropped, or the cabinet has been damaged
- DO NOT ATTEMPT TO SERVICE THE UNIT YOURSELF.

Owner's record

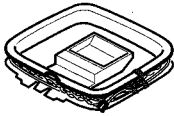
For your convenience, record the model number and serial number (you will find them on the rear of your set) in the space provided below. Please refer to them when you contact your Aiwa dealer in case of difficulty.

Model No.	Serial No. (Lot No.)
XR-M77	
SX-LM77	

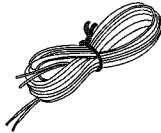
Check your accessories



Remote control



AM loop antenna



FM antenna

Operating Instructions, etc.

TABLE OF CONTENTS

PRECAUTIONS 2

PREPARATIONS

CONNECTIONS 4

REMOTE CONTROL 5

BEFORE OPERATION 6

SETTING THE CLOCK 6

ECONOMIZING POWER 7

DIMMING THE DISPLAY 7

SOUND

ADJUSTING THE SOUND 8

RADIO RECEPTION

MANUAL TUNING 9

PRESETTING STATIONS 10

CD PLAYING

OPERATION 11

TIMER

TIMER PLAY 13

SETTING THE SLEEP TIMER 14

OTHER CONNECTIONS

CONNECTING OPTIONAL EQUIPMENT 15

LISTENING TO EXTERNAL SOURCES 15

GENERAL

CARE AND MAINTENANCE 16

SPECIFICATIONS 16

TROUBLESHOOTING GUIDE 17

PARTS INDEX 18

En

CONNECTIONS

Before connecting the AC cord

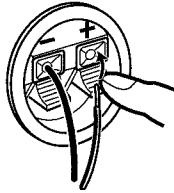
The rated voltage of your unit shown on the rear panel is 120 V AC. Check that the rated voltage matches your local voltage.

IMPORTANT

- Connect the speakers, antennas, and all optional equipment first. Then connect the AC cord.
- There are no differences between the front speakers. Both speakers can be connected as L (Left) or R (Right).

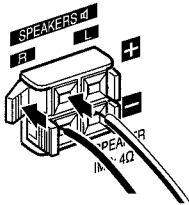
1 Connect the speaker cords to the speakers.

Connect the cords with the white stripes to ⊕ terminals and the other cords to ⊖ terminals.



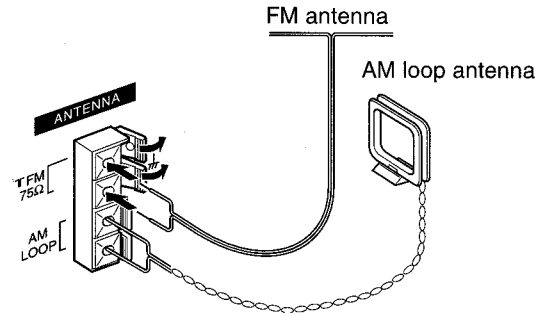
2 Connect the speaker cords to the main unit.

The cords with the white stripes should be connected to the ⊕ terminals and the other cords to the ⊖ terminals.



3 Connect the supplied antennas.

Connect the FM antenna to the FM 75 Ω terminals and the AM antenna to the AM LOOP terminals.



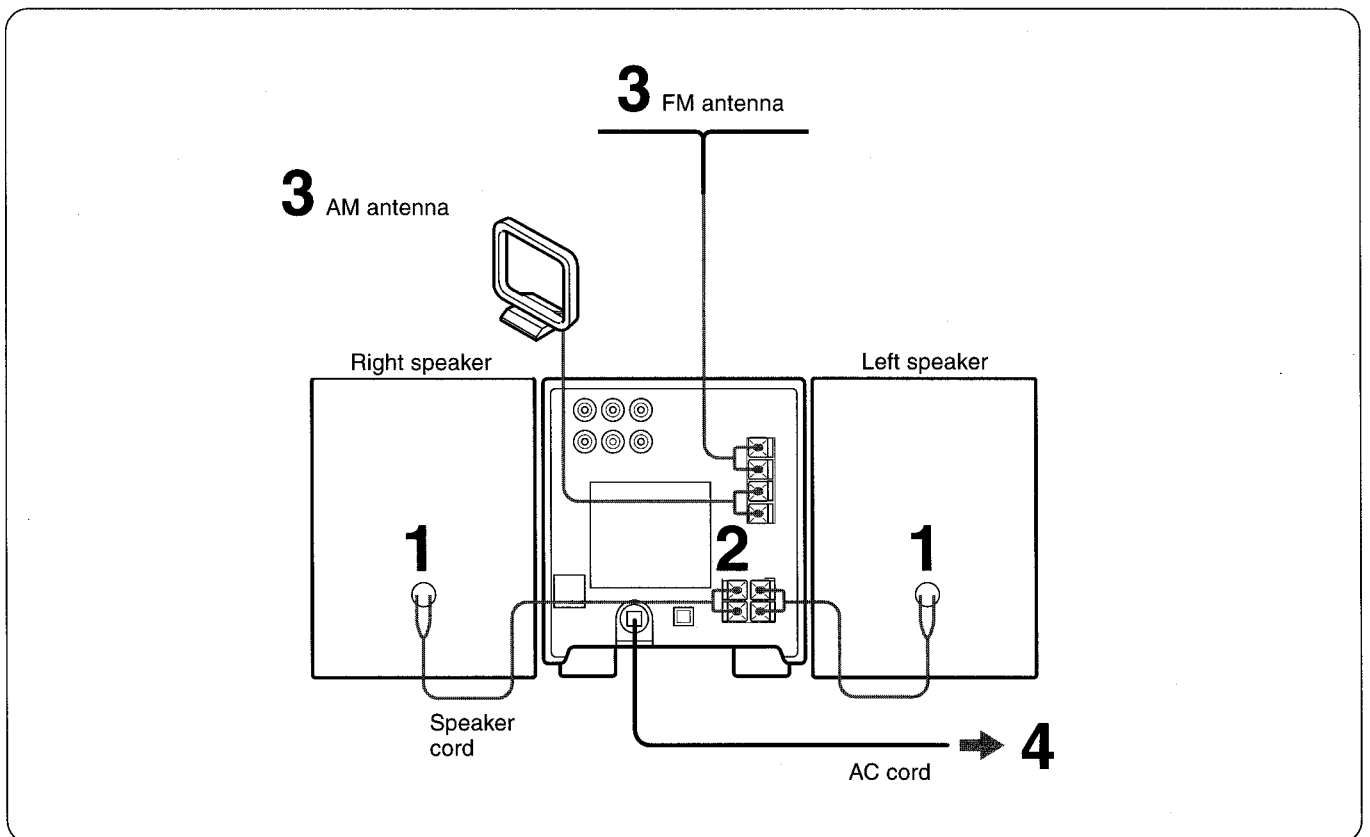
4 Connect the AC cord to an AC outlet.

CONCERNING THE DISPLAY WINDOW'S DEMO DISPLAY

When the power cord is plugged into an electrical outlet for the first time after purchase, a demo display will appear in the display window. When the power is turned on, the demo display will end. When the power is turned off, the demo display will appear again. Until the clock is set, the demo display will appear whenever the power is turned off. (For setting the clock, see page 6.)

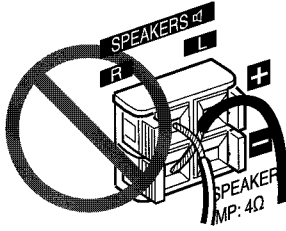
When the clock is set

The demo display can be seen using the DEMO/ECO button. This button is used also to dim the display and to set the unit in the power economizing mode. See page 7 for detailed explanation.



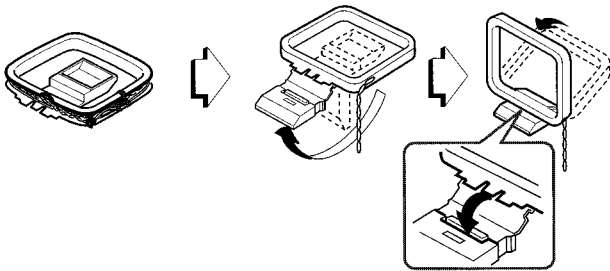
NOTE

Do not short-circuit the \oplus and \ominus speaker cord leads; otherwise the sound may become inaudible or the unit may be turned off. If this happens, disconnect the AC cord from the AC outlet and re-connect the speaker cords correctly. Connect then the AC cord and turn the unit on again.



To stand the AM antenna on a surface

Fix the claw to the slot.



To position the antennas

FM feeder antenna:

Extend this antenna horizontally in a T-shape and fix its ends to the wall.

AM loop antenna:

Position to find the best direction.

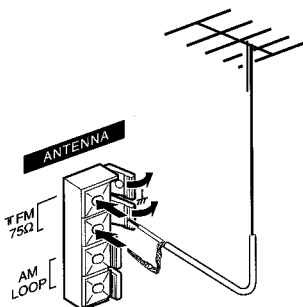
NOTE

- Do not connect any speakers to the unit other than the supplied ones.
- Do not leave objects generating magnetism near the speakers.
- Do not bring the FM antenna near metal objects or curtain rails.
- Do not bring the AM antenna near other optional equipment, the stereo system itself, the AC cord or speaker cords, since noise will be picked up.
- Do not unwind the AM antenna wire.

CONNECTING AN OUTDOOR ANTENNA

For better FM reception, use of an outdoor antenna is recommended.

Connect the outdoor antenna to the FM 75 Ω terminals.

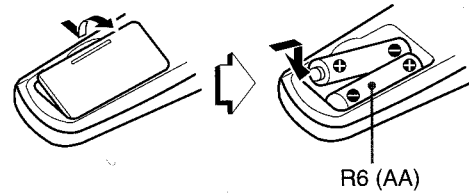


To connect other optional equipment → page 15.

REMOTE CONTROL

Inserting batteries

Detach the battery cover on the rear of the remote control and insert two R6 (size AA) batteries.



When to replace the batteries

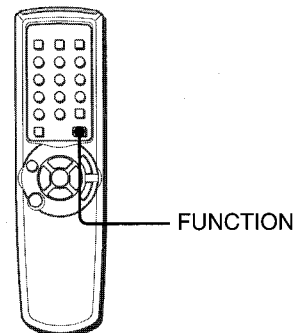
The maximum operational distance between the remote control and the sensor on the main unit should be approximately 5 meters (16 feet). When this distance decreases, replace the batteries with new ones.

To use the remote control

Some operations can be performed using the buttons on the remote control only, or those on the main unit only, while others can be performed using the buttons on the main unit as well as on the remote control. This instructions manual clearly describes the buttons available for each operation.

NOTE

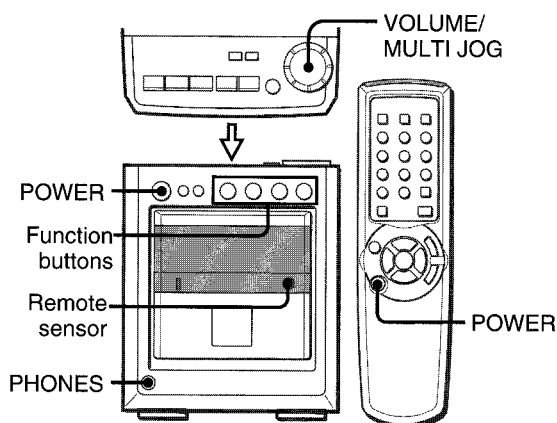
- If the unit is not going to be used for an extended period of time, remove the batteries to prevent possible electrolyte leakage.
- The remote control may not operate correctly when:
 - The line of sight between the remote control and the remote sensor (see the illustration of "BEFORE OPERATION") is exposed to intense light, such as direct sunlight.
 - Other remote controls are used nearby (television, etc.)



To use the FUNCTION button

The FUNCTION button substitutes for the function buttons (TUN/BAND, AUX, CD, MD) on the main unit. Each time the FUNCTION button is pressed while power is on, the next function is selected cyclically.

BEFORE OPERATION



To turn the unit on

Press one of the function buttons (TUN/BAND, AUX, CD, MD). Playback of the inserted disc begins, or the previously tuned station is received (Direct Play Function). The POWER button is also available.

To turn the unit off

Press the POWER button again.

VOLUME/MULTI JOG dial

The VOLUME/MULTI JOG dial can be used when setting the clock and timer, as well as when adjusting the volume level. It can also be used with the JOG MODE button as a convenient dial to adjust the sound quality, select a radio station, and skip to the beginning of a CD track.

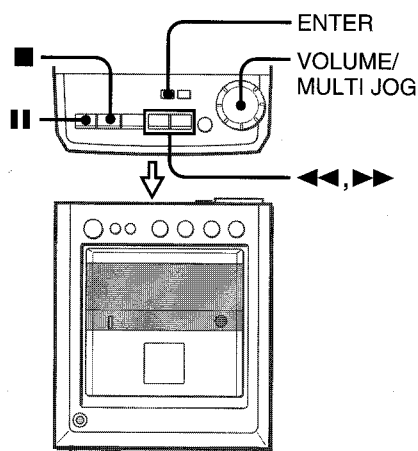
Detailed explanations are given on each related page.

To use the headphones

Connect headphones with a stereo mini plug ($\varnothing 3.5$ mm, $1/8$ inch) to the PHONES jack.

No sound is output from the speakers while the headphones are plugged in.

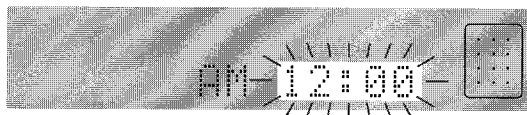
SETTING THE CLOCK



1 Press the **||** button when the power is off.

The clock is displayed. (Or the clock becomes brighter.)

- When the power cord is plugged into an electrical outlet for the first time after purchase or when the clock setting is canceled due to a power failure, the entire clock display flashes by pressing the **||** button. Within 4 seconds, start setting the clock as described in step 2.



To switch to the 24-hour standard, press the **■** button.

To restore the 12-hour standard, press the **■** button again.

2 While the clock is displayed (for 4 seconds), start setting the time.

Turn the VOLUME/MULTI JOG dial to the right to advance the time and turn it to the left to move the time back. The speed with which the time changes varies according to how fast you turn the VOLUME/MULTI JOG dial. You can also press the **◀◀** or **▶▶** button. Holding these buttons down will vary the time in 10-minute units.

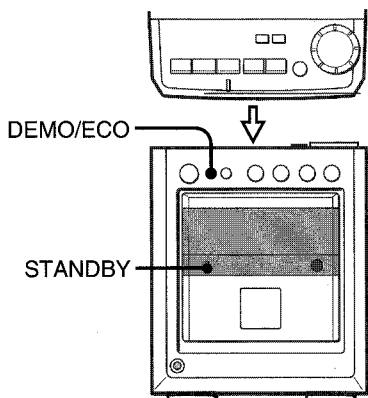
3 Press the ENTER or **||** button.

When the clock is set for the first time after purchase

Everything on the display will clear.

This is because the power economizing mode of the unit is activated, and is not a malfunction.

The power economizing mode can be canceled. See page 7 for details.



DIMMING THE DISPLAY

This unit allows you to change the brightness of the display window according to your preference.

Press the DEMO/ECO button while the unit is turned on.

Each press of this button changes the display status as follows:

- ① Brighter display
- ② Demo display
- ③ Darker display

If the power is turned off after changing the display brightness, the display returns to the last status when the power is turned on the next time.

If the power is turned off during the demo display, the display becomes brighter when the power is turned on again.

ECONOMIZING POWER

This unit allows you to regulate its power consumption by displaying nothing on the display while the power is off. This is called **the power economizing mode**.

Press the DEMO/ECO button while the unit is turned off.

Each press of this button changes the display status as follows:

- ① Demo display (power economizing mode canceled)
- ② Power economizing mode
- ③ Clock display (power economizing mode canceled)

When the power economizing mode is set

“Eco Mode” is displayed for 4 seconds, and everything on the display will clear.

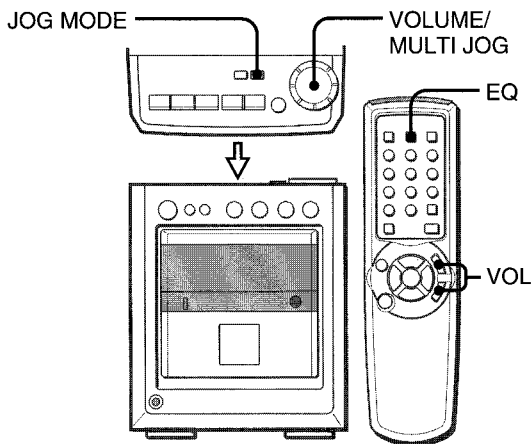
Only the STANDBY indicator under the display window lights to show that the power is supplied to the unit.

Standby power consumption

If the power economizing mode is activated : 1.4W

If the demo display appears when the power is turned off, and pressing the DEMO/ECO button does not activate the power economizing mode but the clock display flashes, it indicates that the clock has been stopped due to a power failure or the removal of the power cord. The current time needs to be reset.

ADJUSTING THE SOUND

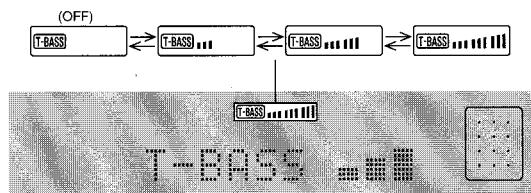


ADJUSTING THE VOLUME

Turn the **VOLUME/MULTI JOG dial** on the main unit, or press the **VOL buttons** on the remote control. The volume level is shown on the display for 4 seconds. It can be set from 0 (minimum) to 30, and then MAX (maximum). The volume remains memorized even after the power is turned off. However, if the power is turned off when the volume is set to more than 21, it is automatically set to 21 the next time the power is turned on.

ENHANCING THE BASS SOUND

The T-BASS system enhances the realism of low-frequency sound. Press the **JOG MODE button** repeatedly until "T-BASS" appears on the display. Then, turn the **VOLUME/MULTI JOG dial** right or left to select one of the three levels, or off position within 6 seconds. The T-BASS level does not change cyclically.

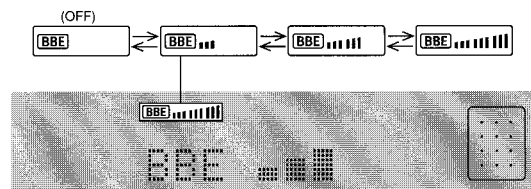


NOTE

Low frequency sound may be distorted when the T-BASS system is used for a disc in which low frequency sound is originally emphasized. In this case, cancel the T-BASS system.

ENHANCING THE TREBLE SOUND

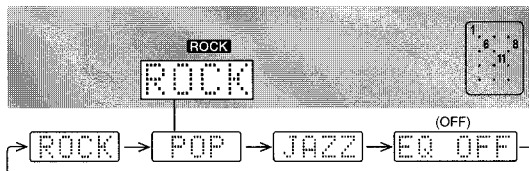
The BBE system enhances the clarity of high-frequency sound. Press the **JOG MODE button** repeatedly until "BBE" appears on the display. Then, turn the **VOLUME/MULTI JOG dial** right or left to select one of the three levels, or off position within 6 seconds. The BBE level does not change cyclically.



EQ (EQUALIZER)

This unit provides the following three different equalization curves.
ROCK: Powerful sound emphasizing treble and bass
POP: More presence in the vocals and midrange
JAZZ: Accented lower frequencies for jazz-type music

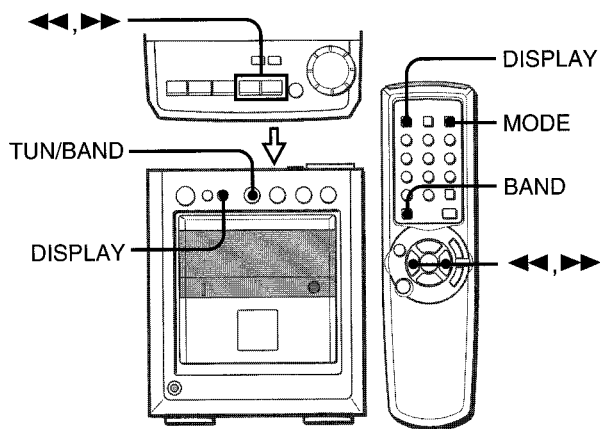
Press the **JOG MODE button** repeatedly until "EQ OFF" (or the current EQ setting) appears on the display. Then, turn the **VOLUME/MULTI JOG dial** right or left to select one of the three kinds, or off position within 6 seconds.



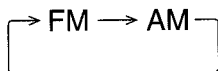
The graphic curve corresponding to the selected equalization mode will be displayed on the display.

When using the remote control, press the EQ button repeatedly.

MANUAL TUNING



1 Press the TUN/BAND button on the main unit or the BAND button on the remote control repeatedly to select the desired band.



If the power is turned off, the previously tuned station will be played (Direct Play Function).

2 Press the ◀◀ or ▶▶ button to select a station.
 Each time the button is pressed, the frequency changes.
 When a station is received, "TUNE" is displayed for 2 seconds.
 During FM stereo reception, ((Ⓜ)) is displayed.



About the level indicator

The above display automatically changes to the level indicator after 4 seconds.
 The level indicator shows an approximate playback sound level.



To search for a station quickly (Auto Search)

Keep the ◀◀ or ▶▶ button pressed until the tuner starts searching for a station. After tuning in to a station, the search stops.
 To stop the Auto Search manually, press the ◀◀ or ▶▶ button.
 • The Auto Search may not stop at stations with very weak signals.

When an FM stereo broadcast contains noise

Press the MODE button on the remote control.
 "MONO" appears on the display.
 Noise is reduced, although reception is monaural.



To restore stereo reception, repeat the above again.

To change the AM tuning interval

The default setting of the AM tuning interval is 10 kHz/step. If you use this unit in an area where the frequency allocation system is 9 kHz/step, change the tuning interval.
 Press the POWER button while pressing the TUN/BAND button.
 To reset the interval, repeat this procedure.

NOTE

When the AM tuning interval is changed, all preset stations (see "PRESETTING STATIONS") are cleared. The preset stations have to be set again.

To change the display

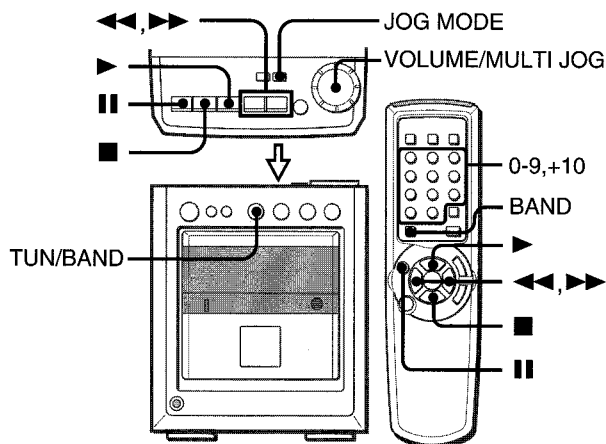
Press the DISPLAY button. With each press of the button, the display changes in the following order.

- ➔ ① Level indicator
- ➔ ② Frequency of the tuned station
 (Example: FM 90.00MHz)

SOUND RADIO RECEPTION

En

PRESETTING STATIONS

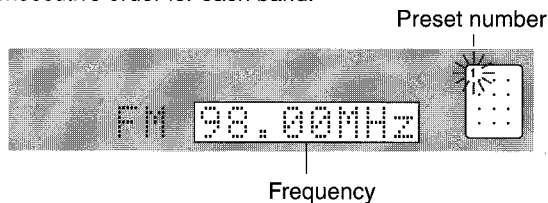


The unit can store a total of 32 preset stations. When a station is stored, a preset number is assigned to the station. Use the preset number to tune in to a preset station directly.

1 Press the TUN/BAND button on the main unit or the BAND button on the remote control to select a band. Then, press the ◀◀ or ▶▶ button to select a station.

2 Press the || button to store the station.

A station is assigned a preset number, beginning from 1 in consecutive order for each band.



3 Repeat steps 1 and 2.

The next station will not be stored if 32 preset stations have already been stored ("PRST FULL" will be displayed).

PRESET NUMBER TUNING

1 Press the TUN/BAND button on the main unit or the BAND button on the remote control to select a band.

2 Press the ▶ button.

Each time the button is pressed, the next ascending preset number is selected.

Or press the JOG MODE button, and while "MULTI JOG" is displayed (for 4 seconds), turn the VOLUME/MULTI JOG dial to select the preset number.

Tuning by preset number

1 Press the BAND button on the remote control to select a band. (Or use the TUN/BAND button on the main unit.)

2 Press the numbered buttons on the remote control to select a preset number:

Example:

To select preset number 10, press the +10 and 0 buttons.

To select preset number 15, press the +10 and 5 buttons.

To clear a preset station

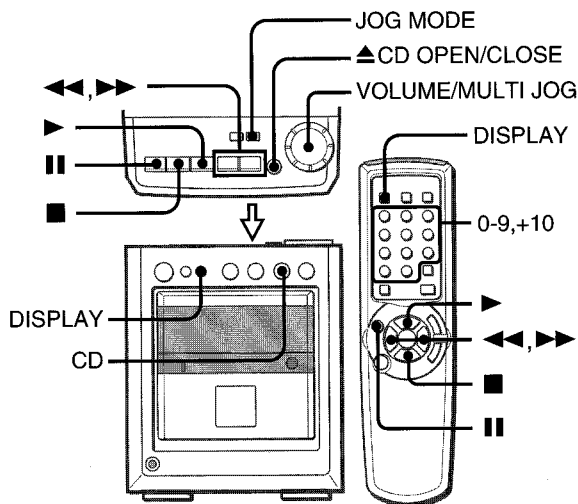
Select the preset number of the station to be cleared. Then, press the ■ button, and press the || button within 4 seconds.

The preset numbers of all other stations in the band with higher numbers are also decreased by one.

NOTE

If there is a long period of power failure or disconnection of AC cord, the presetting of the stations is canceled. In this case, preset again.

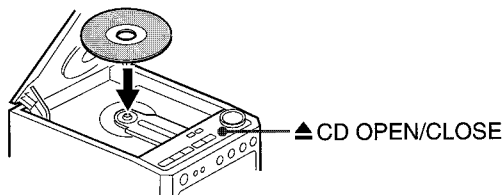
OPERATION



LOADING A DISC

1 Press the CD button on the main unit (or press the FUNCTION button on the remote control repeatedly until "CD No Disc" appears on the display), then press the ▲/CD OPEN/CLOSE button to open the disc compartment cover.

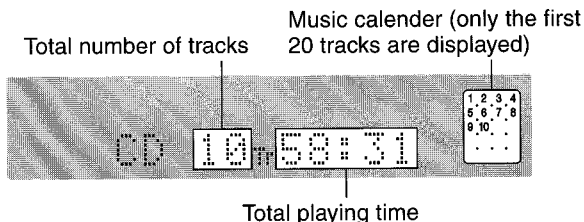
2 Load a disc with the label side up.



3 Press the ▲ CD OPEN/CLOSE button again to close the disc compartment cover.

Caution

Be sure not to put your fingers in the disc compartment while the disc compartment cover is closing.

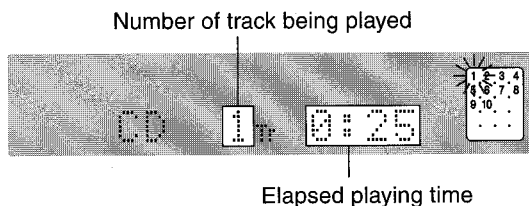


PLAYING A DISC

Load a disc.

Press the ► button.

Play begins with the first track.



About the level indicator

The above display automatically changes to the level indicator after 4 seconds.

The level indicator shows an approximate playback sound level.



To stop play, press the ■ button.

To pause play, press the || button. To resume play, press again.

To search for a particular point during playback, keep the ◀◀ or ▶▶ button pressed and release the button at the desired point.

To skip to the beginning of a track during playback, press the ◀◀ or ▶▶ button repeatedly.

The unit skips forward through the tracks with the ◀◀ button, and skips back with the ▶▶ button.

Or press the JOG MODE button and while "MULTI JOG" is displayed (for 4 seconds), turn the VOLUME/MULTI JOG dial.

To remove the disc, press the ▲ CD OPEN/CLOSE button.

To start play when the power is off (Direct Play Function)

Press the CD button. The power is turned on and play of the loaded disc begins.

To replace the disc before play, press the ▲ CD OPEN/CLOSE button to open the disc compartment cover.

Selecting a track with the remote control

Press the numbered buttons and the +10 button to select a track.

Example:

To select the 25th track, press the +10, +10 and 5 buttons.

To select the 10th track, press the +10 and 0 buttons.

The selected track starts to play and play continues to the end of that disc.

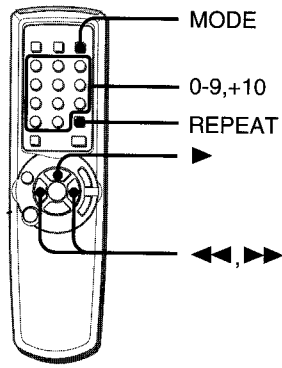
To change the display in playback mode

Press the DISPLAY button. With each press of the button, the display changes in the following order.

- ① Level indicator
- ② Track number being played and elapsed playing time (Example: CD 3Tr 3:43)
- ③ Remaining time of playback (Example: CD -26:15)

NOTE

- Do not use irregular shape CDs (example: heart-shaped, octagonal ones). It may result in malfunction.
- Do not place more than one compact disc on the disc tray.



RANDOM/REPEAT PLAY

Use the remote control.

RANDOM play

All the tracks on the disc can be played randomly.

Press the MODE button repeatedly until "RANDOM" lights up on the display.

To cancel random play, press the MODE button repeatedly until the normal display appears and "RANDOM" disappears.

NOTE

- Even if the ◀◀ button is pressed, a previously played track cannot be skipped. The unit returns to the beginning of the current track only.
- When you select a track with the numbered buttons on the remote control during the random play mode, the selected track starts to play and the random play mode is canceled.

REPEAT play

A single track or all tracks can be played back repeatedly.

Press the REPEAT button repeatedly.

"1" lights up when the single track repeat play is selected, and "◀" lights up when the all tracks repeat play is selected.

To cancel repeat play, press the REPEAT button repeatedly until "1" and "◀" disappear.

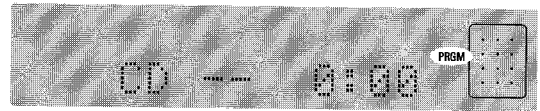
To repeat random play

First press the MODE button to activate random play. Then press the REPEAT button so that "◀" lights up.

PROGRAMMED PLAY

Up to 30 tracks can be programmed from the inserted disc. Use the remote control.

1 In stop mode, press the MODE button repeatedly until "PRGM" appears on the display.



If you press the ▶ button before going to step 2, the programming mode is canceled and the first track of the CD starts to play.

2 Press the numbered buttons and the +10 button to program a track.

Example:

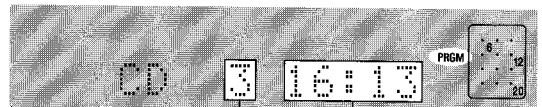
To select the 12th track, press the +10 and 2 buttons.

To select the 20th track, press the +10, +10 and 0 buttons.



Selected track number

Program number



Total number of selected tracks

Total playing time of the selected tracks

3 Repeat step 2 to program other tracks.

4 Press the ▶ button to start play.

To check the program

Each time the ▶▶ button is pressed in stop mode, a track number and program number will be displayed.

To clear the program

Press the ■ button in stop mode.

To add tracks to the program

Before playing, repeat step 2. The track will be programmed after the last track.

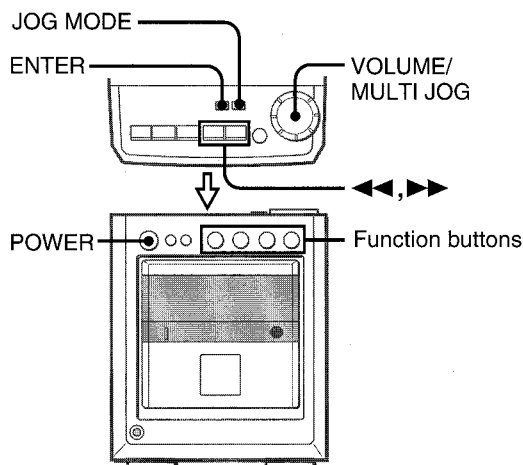
To change the programmed tracks

Clear the program and repeat all the steps again.

NOTE

- During the programmed play, the MODE and numbered buttons do not function.
- Repeating programmed play is also possible.

TIMER PLAY



The unit can be turned on at a specified time every day with the built-in timer.

Make sure the clock is set correctly. (See page 6.)

- 1 Press the JOG MODE button repeatedly so that "TIMER OFF" is displayed, and within 6 seconds, turn the VOLUME/MULTI JOG dial to display "TIMER ⊕ PLAY."



- 2 Within 6 seconds, press the ENTER button.

Time and audio source display flash alternately.

- 3 Set the timer-on time.

Turn the VOLUME/MULTI JOG dial to the right to advance the time and turn it to the left to move the time back. The speed with which the time changes varies according to how fast you turn the VOLUME/MULTI JOG dial. You can also press the ◀◀ or ▶▶ button. Holding these buttons down will vary the time in 10-minute units.



- 4 Select a source for timer play and press the ENTER button.

Press one of the function buttons (TUN/BAND, AUX, CD or MD) corresponding to the desired source and press the ENTER button.

- To listen to the equipment connected to the AUX IN jacks, press the AUX button.
- To listen to the equipment connected to the MD IN jacks, press the MD button.

- 5 Within 4 seconds, select the duration for the timer-activated period with the ◀◀ or ▶▶ button or the VOLUME/MULTI JOG dial, and press the ENTER button.



The duration for the timer-activated period can be set between 5 and 240 minutes in 5-minute steps.

- 6 Prepare the source.

To listen to a CD, load the disc.

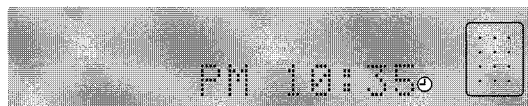
To listen to a radio broadcast, select the desired band and tune in to a station.

To listen to the connected equipment, set the timer of the connected source (with an external timer) and prepare for the play.

- 7 Press the POWER button to turn the unit off after adjusting the volume and tone.

⊕ remains on the display after the power is turned off (timer standby mode).

Note, however, that everything on the display will clear if the power economizing mode (see page 7) is activated. To confirm the timer standby mode, press the DEMO/ECO button to turn off the power economizing mode.



When the timer-on time is reached, the unit turns on and begins play with the selected source.

If the volume level was set to higher than 21 when the power was turned off, it is automatically set to 21 when the unit turns on by the timer.

To check the specified time and source

Press the JOG MODE button repeatedly so that "TIMER ⊕ PLAY" is displayed, then press the ENTER button. The selected source name, the timer-on time and the duration for the timer-activated period are displayed. Press the JOG MODE button to return to the previous display.

To change the timer setting

Set the timer again from the beginning.

To cancel timer standby mode temporarily

Press the JOG MODE button to display the timer mode, then turn the VOLUME/MULTI JOG dial to display "TIMER OFF." And then press the ENTER button within 6 seconds.

To restore the timer standby mode, "TIMER ⊕ PLAY" instead of "TIMER OFF."

Using the unit while the timer is set

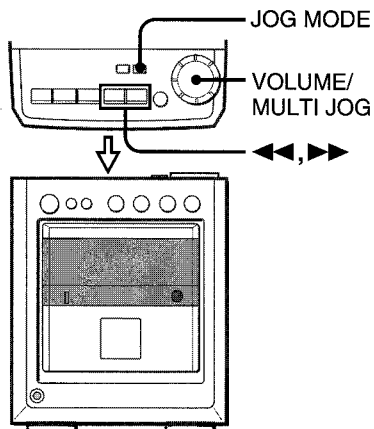
You can use the unit normally after setting the timer.

Before turning off the power, repeat step 6 to prepare the source and adjust the volume and tone.

NOTE

- Timer play will not begin unless the power is turned off.
- Connected equipment cannot be turned on and off by the built-in timer of this unit. Use an external timer.

SETTING THE SLEEP TIMER



The unit can be turned off automatically at a specified time.

- 1 Press the JOG MODE button repeatedly so that "SLEEP OFF" is displayed.



- 2 Within 6 seconds, press the ◀◀ or ▶▶ button or turn the VOLUME/MULTI JOG dial to specify the time until the power is turned off.

Each time the button is pressed, the time changes between 5 and 240 minutes in 5-minute steps.



Specified time

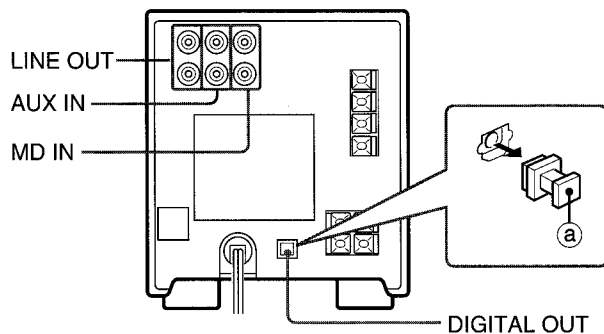
To check the time remaining until the power is turned off

Press the JOG MODE button repeatedly so that "SLEEP xx" (xx is the time until the power is turned off.) is displayed. The remaining time is displayed for 6 seconds.

To cancel the sleep timer

Press the JOG MODE button repeatedly so that "SLEEP xx" is displayed. Then press the ◀◀ or ▶▶ button or turn the VOLUME/MULTI JOG dial to display "SLEEP OFF." The "SLEEP" on the display disappears.

CONNECTING OPTIONAL EQUIPMENT



Refer to the operating instructions of the connected equipment for details.

- The connecting cords are not supplied. Obtain the necessary connecting cords.
- Consult your local Aiwa dealer for optional equipment.

AUX IN JACKS AND MD IN JACKS

This unit can input analog sound signals through these jacks. Use a cable with RCA phono plugs to connect audio equipment (turntables, LD players, VCRs, TV, etc.).

It is convenient to use the MD IN jacks when connecting an MD player/recorder to listen to the playback sound of an MD.

Connect the red plug to the R jack, and the white plug to the L jack.

NOTE

When connecting equipment having LINE IN and LINE OUT jacks, such as a tape deck or an MD recorder, be sure to connect its LINE IN jacks to the LINE OUT jacks of this unit, and its LINE OUT jacks to the MD IN jacks of this unit.

When connecting a turntable

Use an Aiwa turntable equipped with a built-in equalizer amplifier.

LINE OUT JACKS

This unit can output analog sound signals for all functions through these jacks.

Use a cable with RCA phono plugs to connect audio equipment.

NOTE

Do not connect equipment to the LINE OUT jacks and AUX IN jacks simultaneously.

Otherwise, noise is generated and malfunctions may occur.

DIGITAL OUT JACK

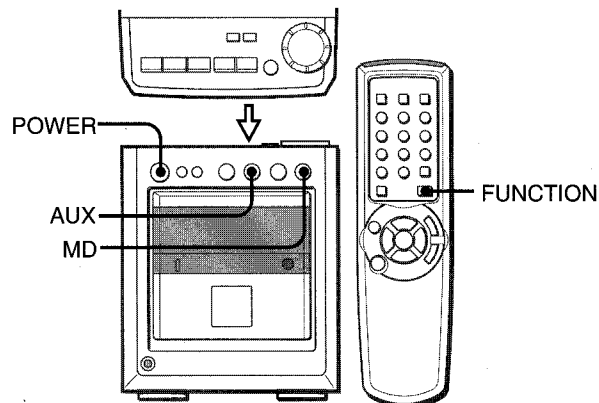
This unit can output CD digital sound signals through this jack. Use an optical cable to connect digital audio equipment (digital amplifier, DAT deck, MD recorder, etc.).

Remove the dust cap **(a)** from the DIGITAL OUT jack. Then, connect an optical cable plug to the DIGITAL OUT jack.

When DIGITAL OUT jack is not used

Attach the supplied dust cap.

LISTENING TO EXTERNAL SOURCES



To play equipment connected to the AUX IN jacks or the MD IN jacks, proceed as follows:

- 1 Press the AUX button when playing equipment connected to the AUX IN jacks, or press the MD button when playing equipment connected to the MD IN jacks.**

"AUX" or "MD" appears on the display respectively.

Or press the FUNCTION button on the remote control repeatedly until "AUX" or "MD" is displayed.

- 2 Play the connected equipment.**

To change a source name in the display

When the AUX button is pressed, "AUX" is displayed initially. It can be changed to "VIDEO" or "TV."

With the power on, press the POWER button on the main unit while pressing the AUX button.

Repeat the procedure to select the desired name.

CARE AND MAINTENANCE

Occasional care and maintenance of the unit and the software are needed to optimize the performance of your unit.

To clean the cabinet

Use a soft and dry cloth.

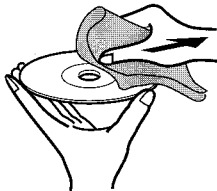
If the surfaces are extremely dirty, use a soft cloth lightly moistened with mild detergent solution. Do not use strong solvents, such as alcohol, benzene or thinner as these could damage the finish of the unit.

Care of the unit

- Do not give the unit a strong shock, i.e., drop or hit.
- Do not use the unit close to a strong magnetic field such as a television. Doing so may cause malfunctions.

Care of CDs

- When a disc becomes dirty, wipe the disc from the center out with a cleaning cloth.



- After playing a disc, store the disc in its case. Do not leave the disc in places that are hot or humid.

SPECIFICATIONS

MAIN UNIT XR-M77

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

AM tuner section

Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity	350 μ V/m
Antenna	Loop antenna

Amplifier section

Power output	12 watts per channel RMS at 4 ohms, from 100 Hz to 15 kHz, with no more than 1 % Total Harmonic Distortion
--------------	---

Total harmonic distortion	0.1 % (3 W, 1 kHz, 4 ohms, DIN AUDIO)
---------------------------	---------------------------------------

Inputs	AUX IN: 800 mV MD IN: 800 mV
--------	---------------------------------

Outputs	LINE OUT: 1.7 V SPEAKERS: accept speakers of 4 ohms or more PHONES (stereo minijack): accepts headphones of 16 ohms or more DIGITAL OUT: more than -21 dBm
---------	---

Compact disc player section

Laser	Semiconductor laser ($\lambda = 780$ nm)
D-A converter	1 bit dual
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

SPEAKER SYSTEM SX-LM77

Cabinet type	2 way, bass reflex (magnetic shielded type)
Speakers	Woofers: 100 mm cone type Tweeters: 22 mm dome type
Impedance	4 ohms
Output sound pressure level	86 dB/W/m
Dimensions (W x H x D)	116 x 170 x 197 mm (4 $\frac{5}{8}$ x 6 $\frac{3}{4}$ x 7 $\frac{7}{8}$ inches)
Weight	1.4 kg (3 lb 1 oz)

General

Power requirements	120 V AC, 60Hz
Power consumption	50 W
Standby power consumption	1.4 W (power-economizing mode set to ON)
Dimensions (W x H x D)	144 x 170 x 280 mm (5 $\frac{3}{4}$ x 6 $\frac{3}{4}$ x 11 $\frac{1}{8}$ inches)
Weight	3.3 kg (7 lbs 4 oz)

- Specifications and external appearance are subject to change without notice.

BBE SYSTEM

The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.

Under license from BBE sound, Inc.

NOTE

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 circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Modifications or adjustments to this product, which are not expressly approved by the manufacturer, may void the user's right or authority to operate this product.

TROUBLESHOOTING GUIDE

If the unit fails to perform as described in these Operating Instructions, check the following guide.

GENERAL

There is no sound.

- Is the AC cord connected properly?
- Is there a bad connection? (→ page 4)
- Was an incorrect function button pressed?

The sound becomes inaudible or the unit is turned off suddenly.

- There may be a short circuit in the speaker terminals.
 - Disconnect the AC cord from the AC outlet and re-connect the speaker cords correctly. Then connect the AC cord and turn the unit on again.

Sound is emitted from one speaker only.

- Is the other speaker disconnected?

An erroneous display or a malfunction occurs.

- Reset the unit as stated below.

TUNER SECTION

There is constant, wave-like static.

- Is the antenna connected properly? (→ page 4)
- Is the signal weak?
 - Connect an outdoor antenna.

The reception contains noise interferences or the sound is distorted.

- Is the system picking up external noise or multipath distortion?
 - Change the orientation of the antenna.
 - Move the unit away from other electrical appliances.

CD PLAYER SECTION

The CD player does not play.

- Is the disc correctly inserted? (→ page 11)
- Is the disc dirty? (→ page 16)
- Is the lens affected by condensation?
 - Wait approximately one hour and try again.

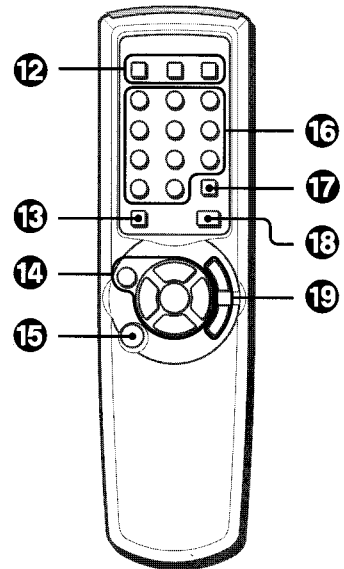
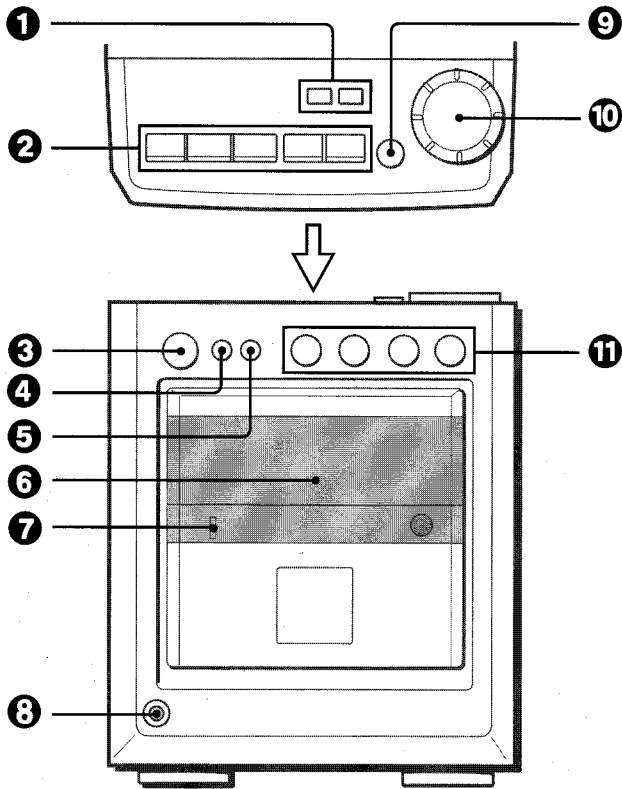
To reset

If an unusual condition occurs in the display window, reset the unit as follows.

- 1 Press the POWER button to turn off the power.
- 2 Press the POWER button while pressing the **■** button.
Everything stored in memory after purchase is canceled.

If the power cannot be turned off in step 1 because of a malfunction, reset by disconnecting and re-connecting the AC cord and repeat step 2.

PARTS INDEX



Name	Page
① ENTER button	6, 13
JOG MODE button	8, 13, 14
② SET button	6, 10, 11
■ CLEAR button	6, 10, 11
▶ PRESET button	10, 11
◀◀, ▶▶/◀◀, ▶▶	
TUNING DOWN/UP buttons	6, 9, 10, 11, 13, 14
③ POWER button	6, 13, 15
④ DEMO/ECO button	7
⑤ DISPLAY button	9, 11
⑥ Display window	
⑦ STANDBY indicator	7
⑧ PHONES jack	6
⑨ ▲ CD OPEN/CLOSE button	11
⑩ VOLUME/MULTI JOG dial	6, 8, 13, 14
⑪ Function buttons	
TUN/BAND button	6, 9, 10
AUX button	6, 15
CD button	6, 11
MD button	6, 15

Name	Page
⑫ DISPLAY button	9, 11
EQ button	8
MODE button	9, 12
⑬ BAND button	9
⑭ ◀◀, ▶▶ SKIP/SEARCH buttons	9, 10, 11, 12
PAUSE button	10, 11
■ STOP button	10, 11
▶ PLAY button	10, 11, 12
⑮ POWER button	6
⑯ Numbered buttons	10, 12
⑰ REPEAT button	12
⑱ FUNCTION button	5, 15
⑲ VOL ▲/▼ buttons	8

For assistance and information,

call toll free 1-800-BUY-AIWA. (United States and Puerto Rico)
