

# aiwa

**COMPACT DISC STEREO SYSTEM**  
**SISTEMA ESTEREO CON REPRODUCTOR DE DISCOS COMPACTOS**  
**CHAINE STEREO AVEC LECTEUR DE DISQUES COMPACTS**

# NSX-MT520

**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)

**WARNING**

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

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>“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.”</p>		

**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.

**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.)
CX-NMT520	
SX-NA502	
SX-R275	
SX-C605	

**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 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**

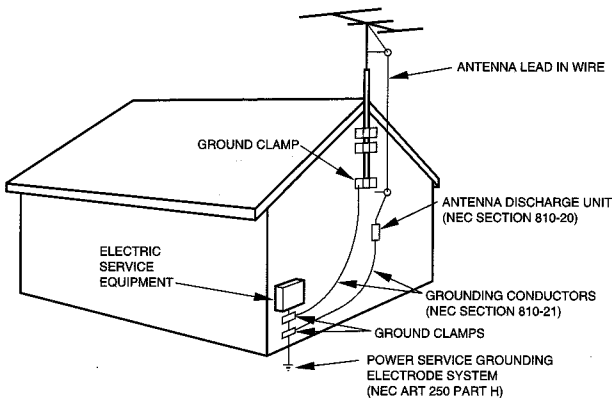
- 1 Power sources** — Connect this unit only to power sources specified in the Operating Instructions, and as marked on the unit.
- 2 Polarization** — As a safety feature, some units are equipped with polarized AC power plugs which can only be inserted one way into a power outlet. If it is difficult 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 firmly secured to avoid being severely bent, pinched, or walked upon. Pay particular attention to the cord from the unit to the power outlet.
  - 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 plug from the power 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 themselves.

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 units 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.**

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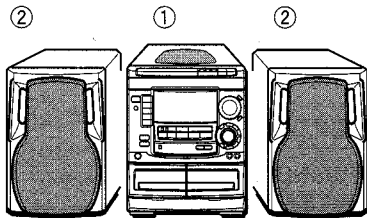
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# SETTING UP

The DOLBY PRO LOGIC system which is the biggest feature of this stereo system provides you with multi channel sound in your home.

Complete setting and connection of the main unit, supplied speakers, your TV and video equipment according to the following procedure.

**Check your system and accessories**



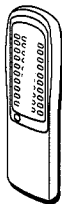
- ① CX-NMT520 Compact disc stereo cassette receiver
- ② SX-NA502 Front speakers



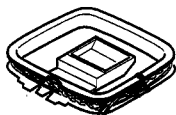
SX-R275 Surround speakers



SX-C605 Center speaker



Remote control



AM antenna

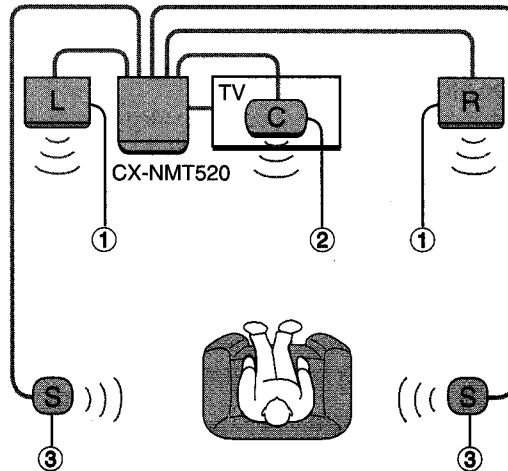


FM antenna

Operating Instructions, etc.

## POSITIONING THE SPEAKERS

To achieve the optimum effects obtainable with the DOLBY PRO LOGIC system, it is important to position the speakers properly. Refer to the following illustration to find out the best location in your room.



- ① **Front speakers**
- ② **Center speaker**  
Position in the center of the two front speakers. In addition, position on or below the TV set, if connecting a TV set to the unit.
- ③ **Surround speakers**  
Place the surround speakers directly to the side of or slightly behind the listening area. Align them horizontally, about 1 meter (3.2 feet) above ear height.

**NOTE**

- No sound is heard from the center and surround speakers when the DOLBY PRO LOGIC, the SURROUND system and the 5.1 CH (page 28) are set to off.
- The center speaker sounds when the DOLBY PRO LOGIC or the 5.1 CH (page 28) is set to on.

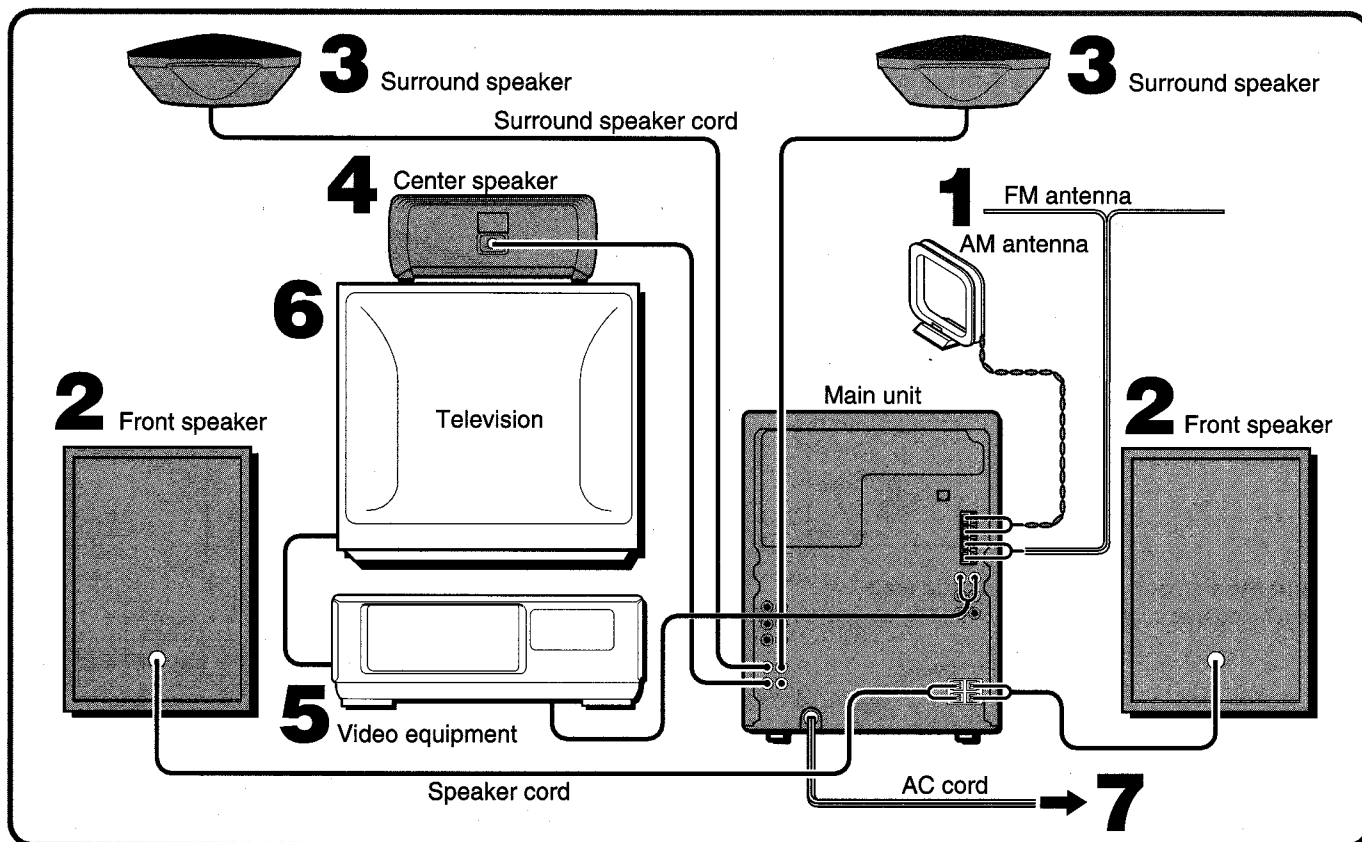
## CONNECTIONS

**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.

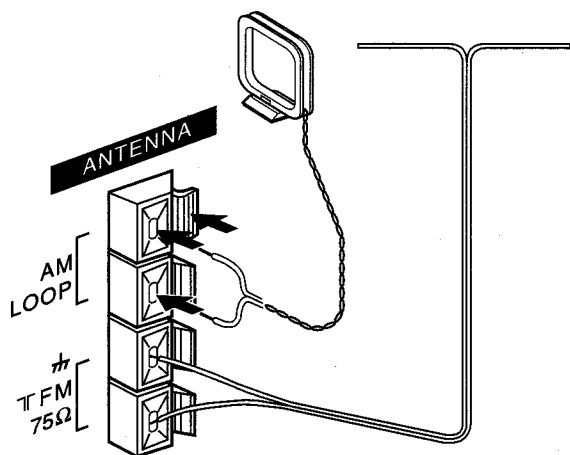
**IMPORTANT**

Connect the speakers, antennas, and all optional equipment first. Then connect the AC cord.



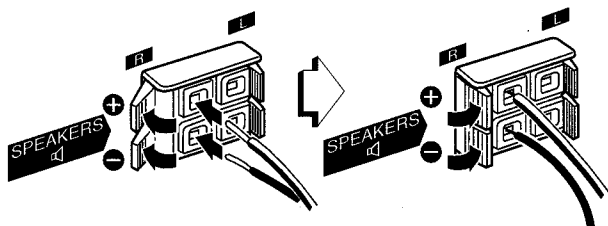
**1 Connect the supplied antennas.**

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



**2 Connect the front speakers.**

The speaker placed on the right side of the unit facing you is "the right speaker" and another one is "the left speaker".

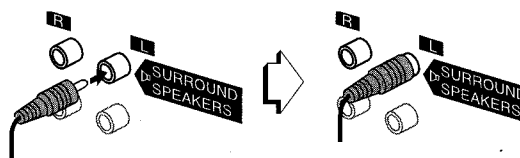


The cords with white stripes should be connected to **+** terminals and the other cords to **-** terminals.

**3 Connect the surround speakers.**

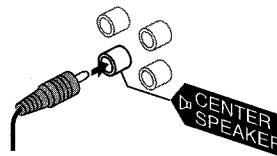
Connect the surround speaker cords to **SURROUND SPEAKERS** terminals.

There is no difference between the surround speakers. Both speakers can be connected as R (right) or L (left).



**4 Connect the center speaker.**

Connect the center speaker cord to **CENTER SPEAKER** terminal.



**5 Connect the video equipment.**

Connect **VIDEO/AUX** jack of this unit to the audio output jack of the video equipment with an optional audio connecting cord.

**6 Connect the Television to the video equipment.**

Refer to the Operating Instructions of the connected equipment for details.

**7 Connect the AC cord to an AC outlet.**

En

### To position the antennas

#### FM feeder antenna:

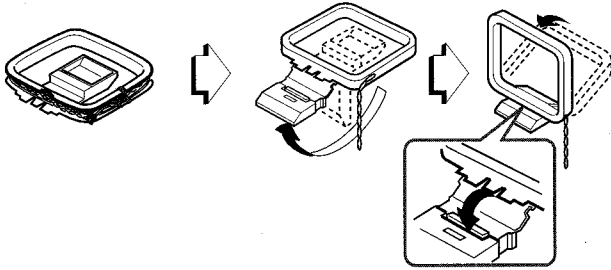
Extend this antenna horizontally in a T-shape and fix its ends to the wall.

#### AM antenna:

Position to find the best possible reception.

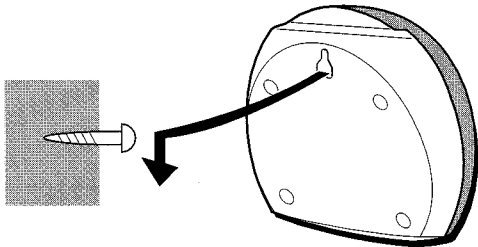
### To stand the AM antenna on a surface

Fix the claw to the slot.



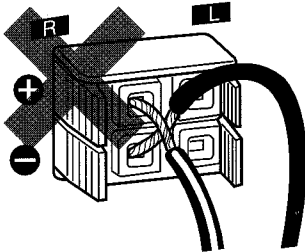
### To mount the surround speakers on the wall

Mount each speaker on a spot that can hold its weight.



#### NOTE

- Be sure to connect the speaker cords correctly. Improper connections can cause short circuits in **SPEAKERS** terminals.

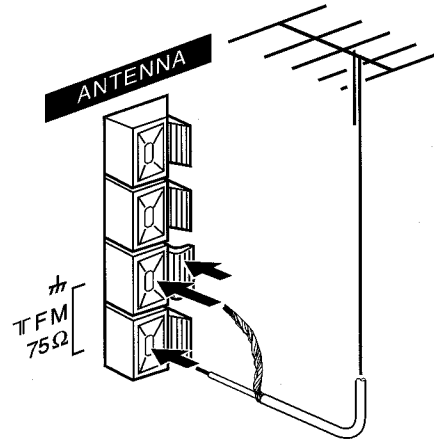


- Do not leave objects generating magnetism, such as credit cards, near the speakers, as these objects may be damaged.
- Do not bring the FM antenna near metal objects or curtain rails.
- Do not bring the AM antenna near other optional equipment, the stereo system itself, the AC cord or speaker cords, 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 **FM 75 Ω** terminals.

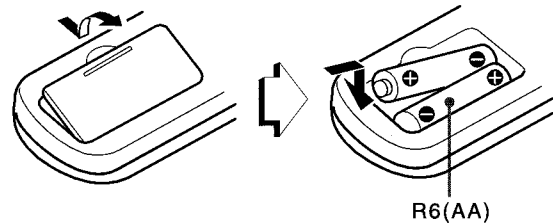


To connect other optional equipment → page 27 and 28.

## 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.

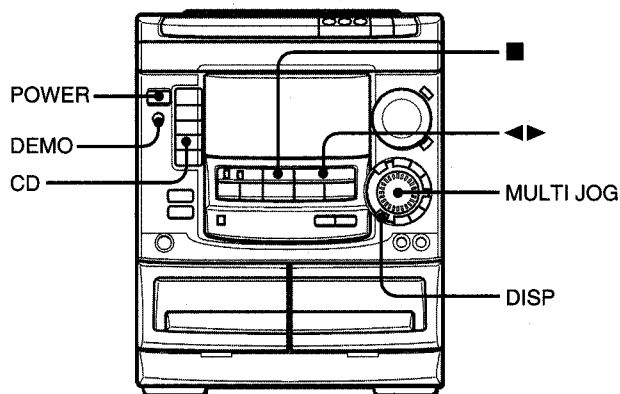
### Using the remote control

The instructions in this manual refer mainly to the buttons on the main unit. Buttons on the remote control with the same names as those on the main unit can be used as well.

#### NOTE

- If the remote control 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 inside the display window is exposed to intense light, such as direct sunlight
  - Other remote controls are used nearby (those of a television, etc.)

# BEFORE OPERATION



## To turn the power on

Press one of the function buttons (**TAPE**, **TUNER**, **VIDEO/AUX**, **CD**, **MD**). Playback of the inserted disc or tape begins, or the previously tuned station is received (Direct Play Function). **POWER** is also available.

When the unit is turned on, the disc compartment may open and close to reset the unit.

## To turn the power off

Press **POWER**.

## Flash windows

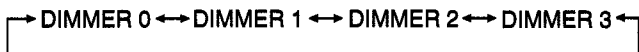
The windows on the top of the unit and the cassette decks light up or flash while the unit is being powered on.

To turn off the light of the top window, press ■ while pressing **CD**. To turn back on, repeat the above.

The light of the cassette decks cannot be turned off.

## To dim the illumination of the display

- 1 Press **DISP** twice so that "DIMMER" is displayed.
- 2 Within 4 seconds, turn **MULTI JOG** to select the dimmer mode as follows.



**DIMMER 0:** The normal display.

**DIMMER 1:** The illumination of the display is dimmer than usual.

**DIMMER 2:** The illumination of the display is dimmer than DIMMER 1.

**DIMMER 3:** The illumination of the display is dimmer than DIMMER 2. The spectrum analyzer, the illumination on the buttons, and the windows on the top of the unit and the cassette decks light off.

## To change the spectrum analyzer display

3 patterns of spectrum analyzer display can be shown.

Press **DISP** once, and turn **MULTI JOG** within 4 seconds to select the desired spectrum analyzer display.

## Game Demo

When the AC cord is connected, the display window demonstrates the game Demo. When the power is turned on, the game Demo is overridden by the operation display. When the power is turned off, the game Demo is restored.

### To cancel the game Demo

Press **DEMO**. To re-activate the game Demo, press **DEMO** again.

### To play the game Demo

- 1 Press **DEMO** so that the game Demo displays.
- 2 Press ◀▶.
- 3 Press ■ once.  
The number on the left side stops.
- 4 Press ■ twice to stop the remaining two numbers.

#### Scoring:

20 points are given to start the game.

If all the numbers are equal, 50 points are added to the score.

If not equal, one point is subtracted.

If the gained points reach 9999, you win.

If the gained points fall to 0, you lose.

### To reset the game Demo

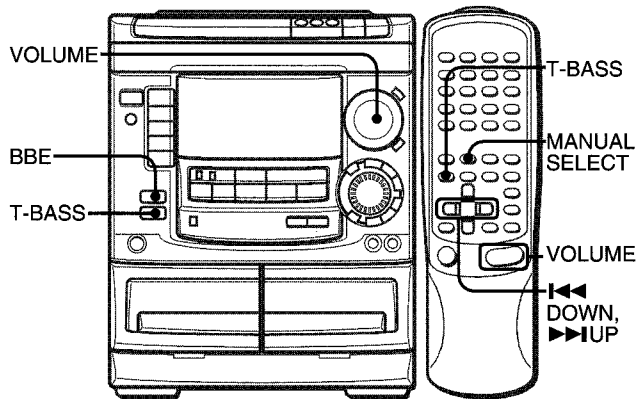
Press **DEMO** twice, then press ◀▶. The game starts again.

### NOTE

- During playing the game Demo, ■ and ◀▶ are available only for the game Demo. Cancel the game Demo to use these buttons for the functions such as CD playing, etc.
- During the game Demo, some indicators unrelated with the actual operation light up on the display.

En

## AUDIO ADJUSTMENTS



### VOLUME

Turn **VOLUME** on the main unit, or press **VOLUME** on the remote control.

The volume level is displayed as a number from 0 to MAX (50). The volume level is automatically set to 20 when the power is turned off with the volume level set to 21 or more.

#### To change the left/right balance

Press **MANUAL SELECT** on the remote control. L/R is displayed for 2 seconds. Press **◀◀ DOWN** or **▶▶ UP** on the remote control within these 2 seconds.

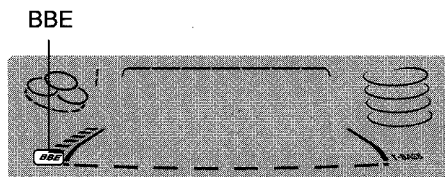
- The DOLBY PRO LOGIC and the DOLBY DIGITAL SURROUND front speakers level is also changed. (See page 21 and 28)

### BBE SYSTEM

The BBE system enhances the clarity of high-frequency sound. It also enriches the Karaoke function to make your voice sound clear and pleasant.

#### Press BBE.

Each time it is pressed, the level changes. Select one of the three levels, or the off position to suit your preference.



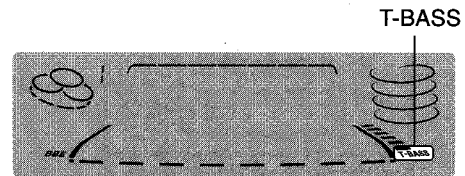
- The BBE system does not perform while the 5.1 CH (page 28) is selected.

### SUPER T-BASS SYSTEM

The T-BASS system enhances the realism of low-frequency sound.

#### Press T-BASS.

Each time it is pressed, the level changes. Select one of the three levels, or the off position to suit your preference.



#### NOTE

- Low frequency sound may be distorted when the T-BASS system is used for a disc or tape in which low frequency sound is originally emphasized. In this case, cancel the T-BASS system.
- When playing back a tape recorded with BBE, it is recommended that BBE be set to off to avoid distorted high frequency sound.



# GRAPHIC EQUALIZER

## To display the current GEQ mode

Press **GEQ**. The current mode is displayed for 4 seconds.

## To cancel the selected mode

Press **GEQ**, and turn **MULTI JOG** to select "GEQ OFF" within 4 seconds. "GRAPHIC EQUALIZER" disappears.

SOUND

## SELECTING THE PROGRAMMED EQUALIZATION CURVE

This unit provides the following 5 different programmed equalization curves.

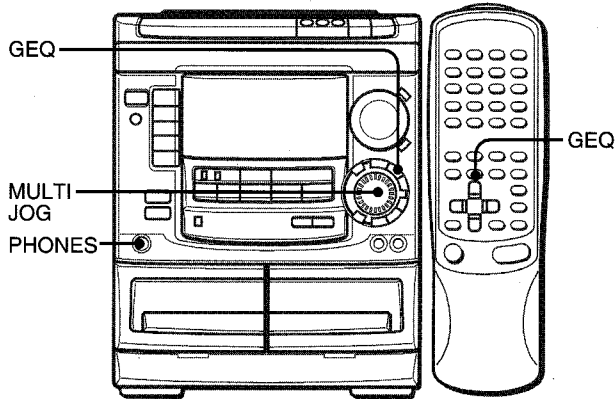
**ROCK:** Powerful sound emphasizing treble and bass

**POP:** More presence in the vocals and midrange

**JAZZ:** Accented lower frequencies for jazz-type music

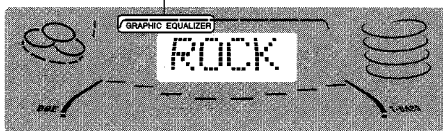
**CLASSIC:** Enriched sound with heavy bass and fine treble.

**LATIN:** Accented higher frequencies for latin music.

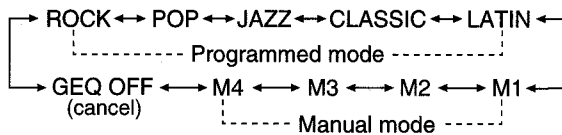


Press **GEQ**, and turn **MULTI JOG** to select one of the programmed equalization curve within 4 seconds.

"GRAPHIC EQUALIZER" lights up.



"GRAPHIC EQUALIZER" appears (except "GEQ OFF") and the GEQ mode is displayed cyclically as follows.



## Using the headphones

Connect headphones to the **PHONES** jack with a standard stereo plug (ø6.3 mm, 1/4 inch).

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

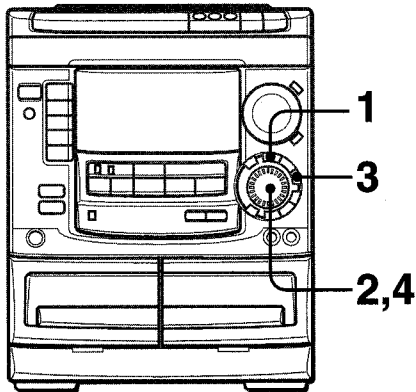
- When the headphones are plugged in, the SURROUND system, the DOLBY PRO LOGIC and the 5.1 CH (page 28) do not function.

## Sound adjustment during recording

The output volume and tone (except BBE) of the speakers or headphones may be freely varied without affecting the recording.

En

## SETTING A NEW EQUALIZATION CURVE MANUALLY



The equalization curve can be customized to suit your preference.

### 1 Press GEQ LOW.

The lowest level frequency indicator flashes for 4 seconds.

### 2 Within 4 seconds, turn MULTI JOG to adjust the level of the lowest frequency.



### 3 Press GEQ HIGH.

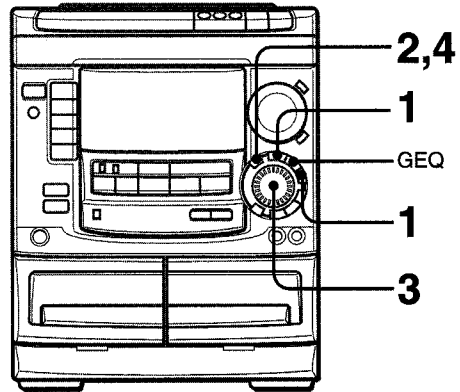
The highest level frequency indicator flashes for 4 seconds.

### 4 Within 4 seconds, turn MULTI JOG to adjust the level of the highest frequency.



The frequency level indicators between the lowest and the highest are adjusted accordingly.

## MEMORIZING THE NEW EQUALIZATION CURVES



Up to 4 customized equalization curves can be stored as the manual modes M1 - M4.

### 1 Set a new equalization curve with HIGH, LOW, and MULTI JOG.

See "SETTING A NEW EQUALIZATION CURVE MANUALLY". The created curve is displayed for 4 seconds.



### 2 Within 4 seconds, press ENTER.

"M 1" flashes on the display for 4 seconds.



• If this step is not completed within 4 seconds, press **GEQ** first to display "GEQ ON". Then press **ENTER** within 4 seconds.

### 3 Within 4 seconds, turn MULTI JOG to select one of the manual modes M1 - M4 to store the curve.

### 4 Within 4 seconds, press ENTER.

The new equalization curve is stored.

#### To select the stored equalization curve

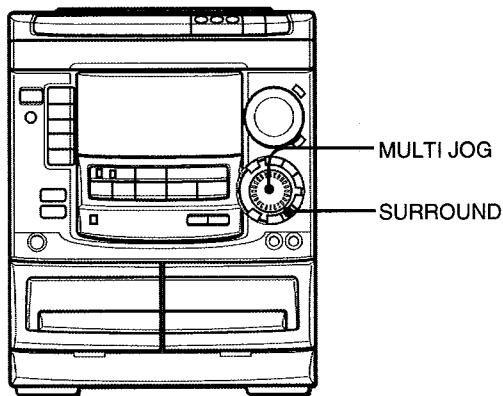
Press **GEQ**, and turn **MULTI JOG** to select one of the manual modes M1 - M4 within 4 seconds.

# DSP SURROUND

The DSP (Digital Signal Processor) SURROUND adjusts the delay time, the input mode and the feedback level to give a resonant surround sound, allowing you to enjoy the real sound presence of different environments.

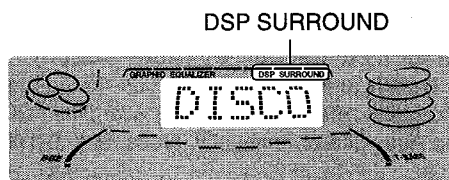
This unit has been programmed with 4 different SURROUND modes. You can also create and memorize up to 4 of your own surround settings.

## SELECTING A PROGRAMMED DSP SURROUND MODE

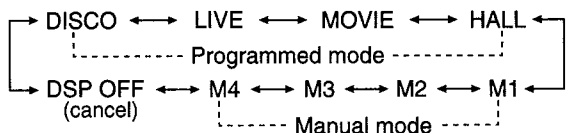


When you select the programmed DSP SURROUND mode, the sound presence of a disco (DISCO), live music performance (LIVE), movie theater (MOVIE) or concert hall (HALL) can be obtained.

**Press SURROUND, and turn MULTI JOG to select the desired Programmed mode within 4 seconds.**



"DSP SURROUND" appears and the DSP SURROUND mode is displayed cyclically as follows.



Equalization curves are selected automatically to match the DSP SURROUND modes and can also be selected or turned off to suit your preference.

### To display the current DSP SURROUND mode

Press **SURROUND**. The current mode is displayed for 4 seconds.

### To cancel the selected mode

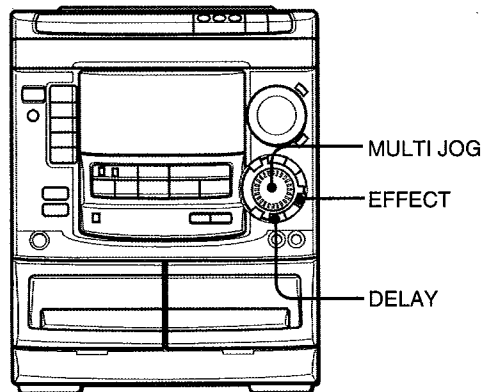
Press **SURROUND**, and turn **MULTI JOG** to select "DSP OFF" within 4 seconds. "DSP SURROUND" disappears.

### When the music source is monaural

Select "LIVE" or "MOVIE" to obtain a simulated stereo effect. When "DISCO" or "HALL" is selected, no sound will be heard from the surround speakers.

## SETTING A NEW DSP SURROUND SOUND MANUALLY

The elements of the DSP SURROUND sound can be customized.

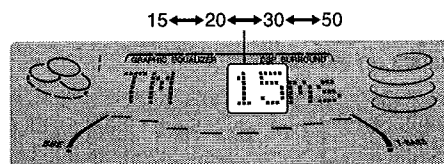


### DELAY (delay time)

Increasing the number in the display increases the delay time and surround effect. "15", "20", "30" or "50" mSec can be selected.

#### To adjust the delay time

Press **DELAY**, and turn **MULTI JOG** to select one of the levels within 4 seconds.

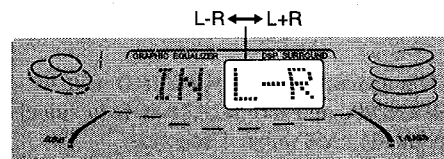


### L-R, L+R (input mode)

When "L+R" is displayed, the surround effect increases, especially in the center. When "L-R" is displayed, it increases on the outside.

#### To select an input mode

Press **EFFECT** once, and turn **MULTI JOG** to select "L-R" or "L+R" within 4 seconds.

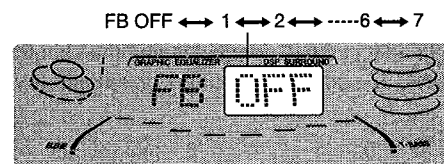


### FB (feedback level)

Increasing the number in the display increases the echo. A level from "OFF" (0) to "7" can be selected.

#### To adjust the level of feedback

Press **EFFECT** twice, and turn **MULTI JOG** to select one of the levels within 4 seconds.

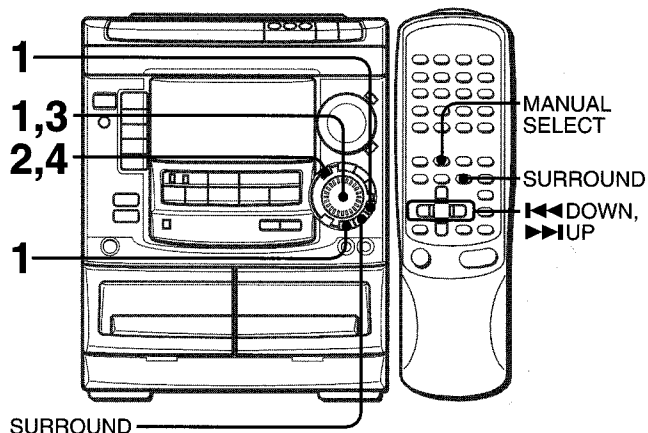


SOUND

En

## MEMORIZING THE NEW DSP SURROUND SOUND

Up to 4 DSP SURROUND sound can be memorized as the manual modes M1 - M4.



### 1 Set a new DSP SURROUND sound with DELAY, EFFECT, and MULTI JOG.

See "SETTING A NEW DSP SURROUND SOUND MANUALLY".

### 2 Within 4 seconds, press ENTER.

"M1" flashes on the display.



- If this step is not completed within 4 seconds, press **SURROUND** first to display "DSP ON". Then press **ENTER** within 4 seconds.

### 3 Within 4 seconds, turn MULTI JOG to select one of the manual modes M1 - M4.

### 4 Within 4 seconds, press ENTER.

The new DSP SURROUND sound is memorized.

### To select the stored DSP SURROUND sound

Press **SURROUND**, and turn **MULTI JOG** to select one of the manual modes M1 - M4 within 4 seconds.

### To adjust the volume of the surround speakers

Press **MANUAL SELECT** twice or three times on the remote control.

"S-L" or "S-R" is displayed for 2 seconds. Press **DOWN** or **UP** on the remote control within these 2 seconds.

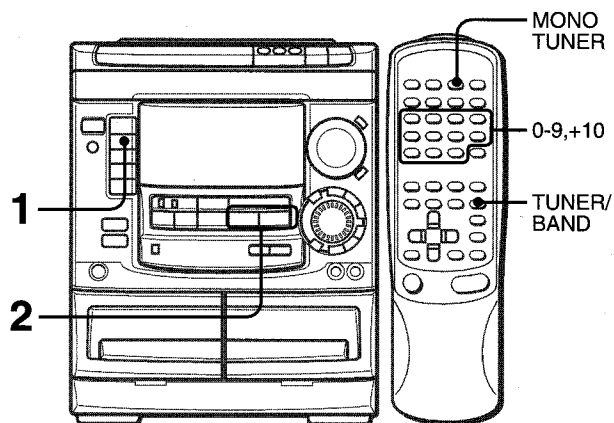
- The DOLBY PRO LOGIC (page 21) and the DOLBY DIGITAL SURROUND (page 28) surround speakers level is also changed.

### NOTE

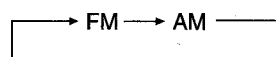
The SURROUND mode is canceled when:

- the ECHO level is changed.
- the DOLBY PRO LOGIC is turned on.
- the headphones are plugged in.
- the 5.1 CH (page 28) is selected.

## MANUAL TUNING



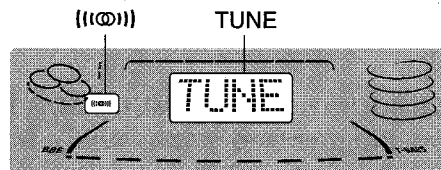
### 1 Press TUNER BAND repeatedly to select the desired band.



When **TUNER BAND** is pressed while the power is off, the power is turned on directly.

### 2 Press DOWN or UP 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.



### To search for a station quickly (Auto Search)

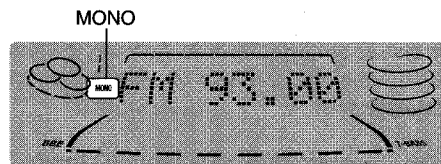
Keep **DOWN** or **UP** pressed until the frequency starts to change rapidly. After tuning in to a station, the search stops. To stop the Auto Search manually, press **DOWN** or **UP**.

- The Auto Search may not stop at stations with very weak signals.

### When an FM TUNER stereo broadcast contains noise

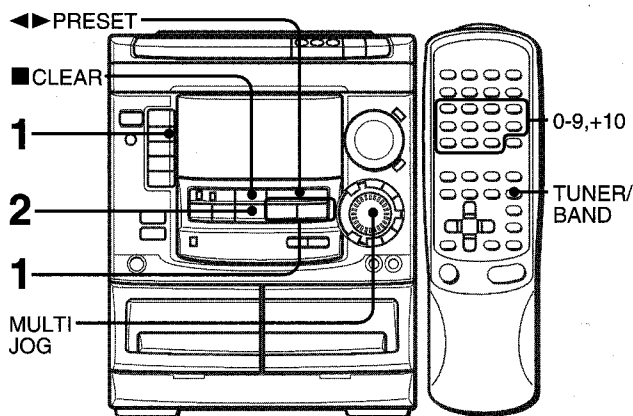
Press **MONO TUNER** on the remote control so that "MONO" appears on the display.

Noise is reduced, although reception is monaural.



To restore stereo reception, press **MONO TUNER** so that "MONO" disappears.

# PRESETTING STATIONS

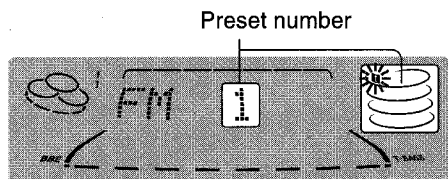


The unit can store a total of 32 preset stations. When a station is stored, a preset number is assigned to the station. Use the preset number to tune in to a preset station directly.

**1 Press TUNER BAND to select a band, and press ◀ DOWN or ▶ UP to select a station.**

**2 Press ■ SET to store the station.**

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



**3 Repeat steps 1 and 2.**

The next station will not be stored if a total of 32 preset stations for all the bands have already been stored.

## PRESET NUMBER TUNING

Use the remote control to select the preset number directly.

**1 Press BAND to select a band.**

**2 Press numbered buttons 0-9 and +10 to select a preset number.**

Example:

To select preset number 20, press +10, +10 and 0.

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

**Selecting a preset number on the main unit**

Press TUNER BAND to select a band. Then, press ◀ PRESET repeatedly or turn MULTI JOG.

Each time ◀ PRESET is pressed, the next ascending number is selected.

**To clear a preset station**

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

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

### 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.

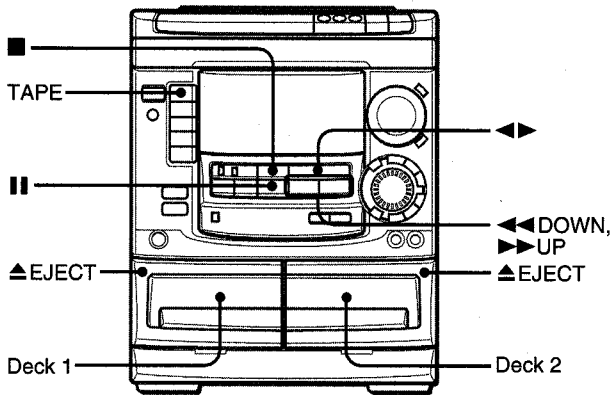
Press POWER while pressing TUNER BAND.

To reset the interval, repeat this procedure.

### NOTE

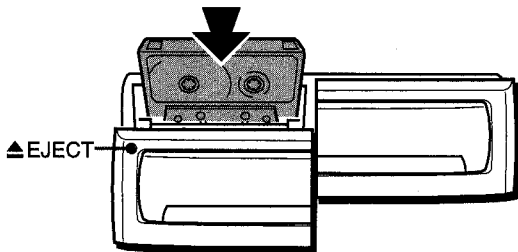
When the AM tuning interval is changed, all preset stations are cleared. The preset stations have to be set again.

**BASIC OPERATIONS**



Use Type I (normal) tapes only.

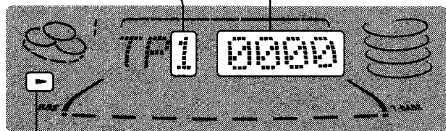
**1 Press TAPE and press ▲ EJECT to open the cassette holder.**



Insert a tape with the exposed side down. Push the cassette holder to close.

**2 Press ◀▶ to start play.**

The selected deck number      The tape counter indicates the tape running length.



Playback side indicator

- ▶: The front side is being played (forward).
- ◀: The back side is being played (reverse).

**To select a playing deck**

When tapes are loaded in both decks, press **TAPE** first to select a deck.

The selected deck number is displayed.

**To stop play, press ■.**

**To pause play (deck 2 only), press |||. To resume play, press again.**

**To change the playback side (deck 1 only), press ◀▶ in play or pause mode.**

**To fast forward or rewind, press ◀◀ or ▶▶. Then press ■ to stop the tape.**

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

Press **TAPE**. The power is turned on and play of the inserted tape begins.

**To set the tape counter to 0000**

Press ■ **CLEAR** in stop mode.

The counter is also set to 0000 when the cassette holder is opened.

**When tapes are loaded in both decks**

After playback of both sides (front and back) on deck 1 finishes, the tape in deck 2 will start to play without interruption and will stop at the end of the front side of the tape. (Continuous play)

## MUSIC SENSOR (deck 1 only)

If there is a 4-second or longer blank between each track, a search for the beginning of the current or next track during playback can be done easily.

Press ◀◀ or ▶▶ during playback referring to the playback side indicator (◀ or ▶) on the display.

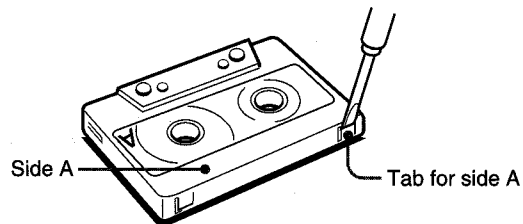
For example, when ▶▶ is pressed while ▶ is displayed, playback of the next track starts after searching.

Music sensor function may not be able to detect tracks under the following conditions:

- Blanks of less than 4 seconds between tracks
- Noisy blanks
- Long passages of low-end sound
- Low overall recording levels

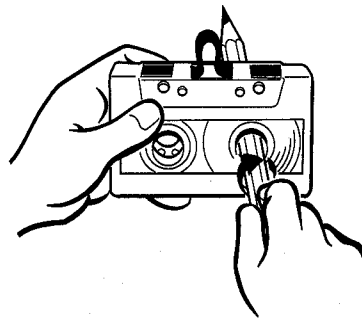
## About cassette tapes

- **To prevent accidental erasure**, break off the plastic tabs on the cassette tape after recording with a screwdriver or other pointed tool.

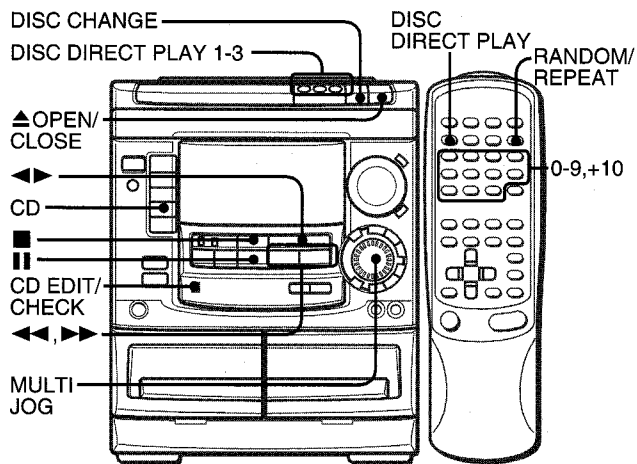


To record on the tape again, cover the tab openings with adhesive tape, etc.

- **120-minute or longer tapes** are extremely thin and easily deformed or damaged. They are not recommended.
- **Take up any slack in the tape** with a pencil or similar tool before use. Slack tape may break or jam in the mechanism.



# BASIC OPERATIONS



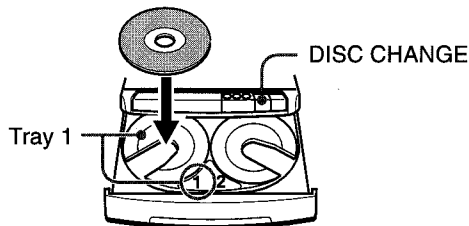
## LOADING DISCS

Press **CD**, then press ▲ **OPEN/CLOSE** to open the disc compartment. Load disc(s) with the label side up.

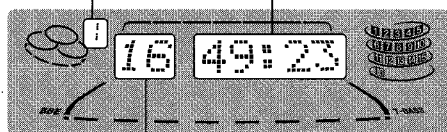
**To play one or two discs**, place the discs on tray 1 and 2.

**To play three discs**, press **DISC CHANGE** to rotate the trays after placing two discs. Place the third disc on tray 3.

Close the disc compartment by pressing ▲ **OPEN/CLOSE**.



Tray number of the disc to be played      Total playing time



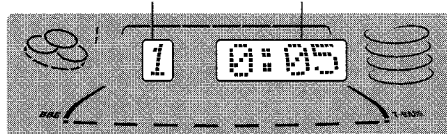
Total number of tracks

## PLAYING DISCS

Load discs.

**To play all discs in the disc compartment**, press ◀▶. Play begins with the disc on tray 1.

Number of track being played      Elapsed playing time



**To play one disc only**, press **DISC DIRECT PLAY 1-3**. The selected disc is played once.

### To play with the remote control

Press **DISC DIRECT PLAY**, then press numbered buttons 1-3 within 3 seconds to select a disc.

**To stop play**, press ■.

**To pause play**, press |||. To resume play, press again.

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

**To skip to the beginning of a track during playback**, press ◀◀ or ▶▶ repeatedly or turn **MULTI JOG**.

**To remove discs**, press ▲ **OPEN/CLOSE**.

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

Press **CD**. The power is turned on and play of the loaded disc(s) begins.

When ▲ **OPEN/CLOSE** is pressed, the power is also turned on and the disc compartment is opened.

### To check the remaining time

During play, press **CD EDIT/CHECK**. The amount of time remaining until all tracks finish playing is displayed. To restore the playing time display, repeat the above.

### Selecting a track with the remote control

1 Press **DISC DIRECT PLAY**, then press numbered buttons 1-3 within 3 seconds to select a disc.

2 Press numbered buttons 0-9 and +10 to select a track.

Example:

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

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

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

### Replacing discs during play

While one disc is playing, the other discs can be replaced without interrupting play.

1 Press **DISC CHANGE**.

2 Remove the discs and replace with other discs.

3 Press ▲ **OPEN/CLOSE** to close the disc compartment.

### NOTE

- When loading an 8-cm (3-inch) disc, put it onto the inner circle of the tray.
- Do not place more than one compact disc on one disc tray.
- Do not tilt the unit with discs loaded. Doing so may cause malfunctions.
- Do not use irregular shape CDs (example: heart-shaped, octagonal ones). It may result in malfunctions.



## RANDOM /REPEAT PLAY

Use the remote control.

### RANDOM play

All the tracks on the selected disc or all the discs can be played randomly.

### REPEAT play


A single disc or all the discs can be played repeatedly.

### Press RANDOM/REPEAT.

Each time it is pressed, the function can be selected cyclically.

**RANDOM play** — RANDOM lights up on the display.

**REPEAT play** —  lights up on the display.


**RANDOM/REPEAT play** — RANDOM and  light up on the display.

**Cancel** — RANDOM and  disappear from the display.

**To play all discs**, press  to start play.

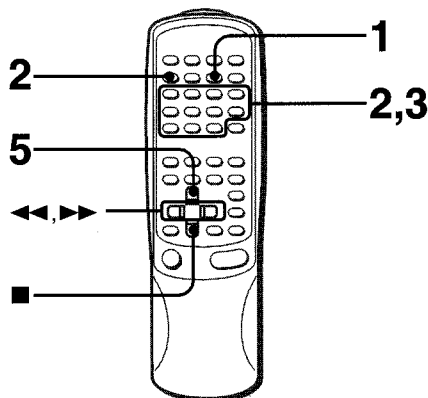
**To play a single disc**, press one of **DISC DIRECT PLAY 1-3** to start play.

### NOTE

During random play it is not possible to skip to the previously played track with .

## PROGRAMMED PLAY

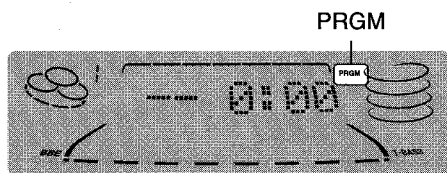
Up to 30 tracks can be programmed from any of the inserted discs.



Use the remote control.

### 1 Press PRGM twice in stop mode.

"PRGM" is displayed.



• When the **PRGM** is pressed once in step 1, the unit enters the KARAOKE PROGRAM (page 24).

### 2 Press DISC DIRECT PLAY, then press numbered buttons 1-3 within 3 seconds to select a disc.

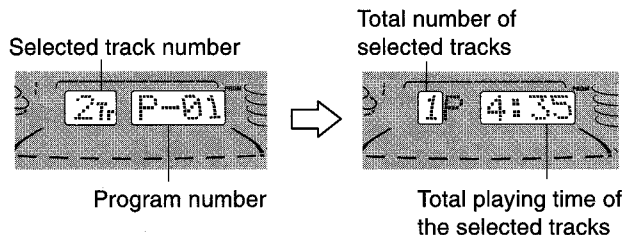
Go to the next step when the tray stops rotating.

### 3 Press numbered buttons 0-9 and +10 to program a track.

Example:

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



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



### 4 Repeat steps 2 and 3 to program other tracks.

### 5 Press to start play.

### To check the program

Each time  or  is pressed in stop mode, a disc number, track number, and program number will be displayed.

### To clear the program

Press  **CLEAR** in stop mode.


### To add tracks to the program

Repeat steps 2 and 3 in stop mode. The track will be programmed after the last track.

### To change the programmed tracks

Clear the program and repeat all the steps again.

### To play the programmed tracks repeatedly

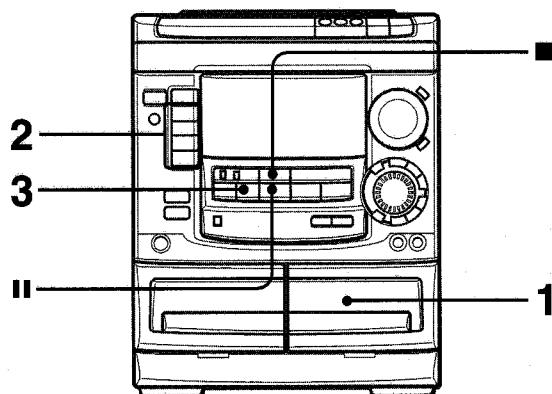
After programming the tracks, press **RANDOM/REPEAT** repeatedly until  appears on the display.

### NOTE

During programmed play, you cannot perform random play, checking the remaining time, or selecting a disc or track.

## BASIC RECORDING

This section explains how to record from the tuner, CD player, or external equipment.

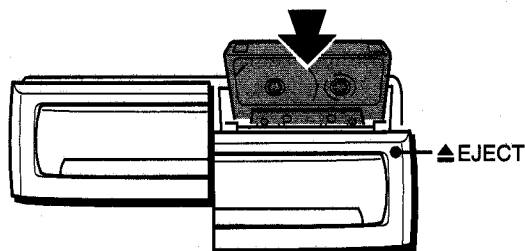


### Preparation

- Use Type I (normal) tapes only.
- Set the tape to the point where recording will start.
- Note that recording is done on only one side of the tape.

### 1 Insert the tape to be recorded on into deck 2.

Insert the tape with the side to be recorded on first facing out from the unit.



### 2 Press function (CD, TUNER, VIDEO/AUX or MD) and prepare the source to be recorded.

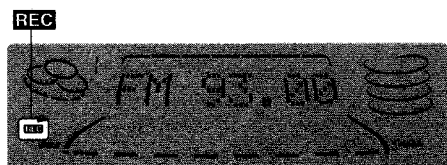
To record from a CD, press CD and load the disc(s).

To record from a radio broadcast, press TUNER and tune in to a station.

To record from a connected source, press VIDEO/AUX or MD.

### 3 Press ● REC/REC MUTE to start recording.

When the selected function is CD, playback and recording start simultaneously.



When recording from a connected source, start playback of the source.

To stop recording, press ■.

To pause recording, press II. (Applicable when the source is TUNER, VIDEO/AUX or MD) To resume recording, press it again.

### To start recording with the remote control

First press ●/O REC/REC MUTE, and then press ◀▶ within 2 seconds.

### Sound adjustment during recording

The output volume and tone (except BBE) of the speakers or headphones may be freely varied without affecting the recording.

## INSERTING BLANK SPACES

Insertion of 4-second blank spaces enables you to activate the Music Sensor function. (Applicable when the source is TUNER, VIDEO/AUX or MD.)

### 1 Press ● REC/REC MUTE during recording or while in recording pause mode.

REC on the display flashes for 4 seconds and the tape runs without recording. After 4 seconds, the deck enters the recording pause mode.

### 2 Press II to resume recording.

To insert a blank space of less than 4 seconds, press ● REC/REC MUTE again while REC is flashing.

To insert blank spaces of more than 4 seconds, after the deck enters recording pause mode, press ● REC/REC MUTE again. Each time the button is pressed, a 4-second blank space is added.

### To erase a recording

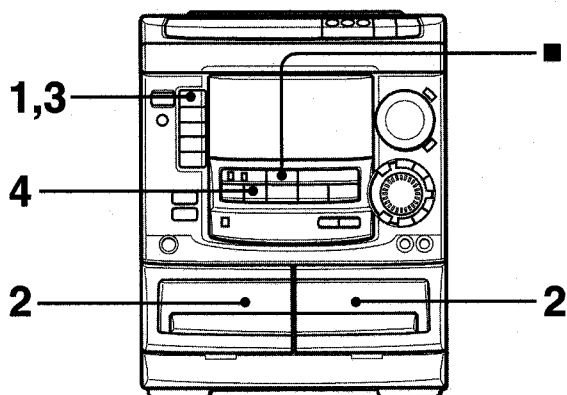
Make sure the microphone is not connected to this unit. Set the microphone volume and the echo level to OFF (See page 23).

1 Insert the tape to be erased into deck 2 and press TAPE DECK 1/2 to display "TP 2".

2 Set the tape to the point where the erasure is to be started.

3 Press ● REC/REC MUTE to start the erasure.

## DUBBING A TAPE MANUALLY



### NOTE

- Set the tape to the point where recording will start.
- Note that recording will be done on one side of the tape only.

#### 1 Press TAPE.

#### 2 Insert the original tape into deck 1 and the tape to be recorded on into deck 2.

Insert the tapes with the sides to be played back or recorded on facing out from the unit.

#### 3 Press TAPE DECK 1/2 to select deck 1.

"TP 1" is displayed.

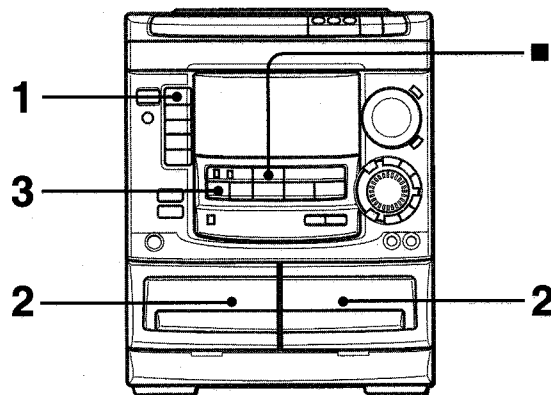
#### 4 Press ● REC/REC MUTE to start recording.

Playing and recording start simultaneously.

#### To stop dubbing

Press ■.

## DUBBING THE WHOLE TAPE



This function allows you to make exact copies of the original tape.

### NOTE

- Dubbing does not start from a point halfway in the tape.
- Note that recording will be done on one side of the tape only.

#### 1 Press TAPE.

#### 2 Insert the original tape into deck 1 and the tape to be recorded on into deck 2.

Insert each tape with the side to be played back or recorded on facing out from the unit.

#### 3 Press SYNCHRO DUBBING to start recording.

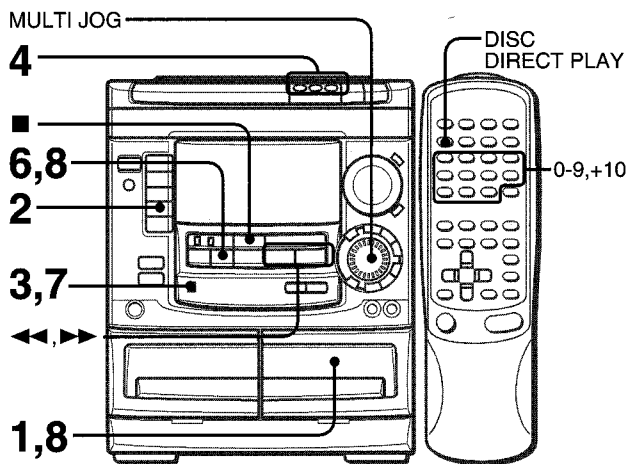


The tapes are rewound to the beginning of the front sides, and recording starts.

#### To stop dubbing

Press ■.

# AI EDIT RECORDING



The AI edit recording function enables CD recording without worrying about tape length and track length. When a CD is inserted, the unit automatically calculates the total track length. If necessary, the order of tracks is rearranged so that no track is cut short.

(AI: Artificial Intelligence)

## NOTE

AI edit recording will not start from a point halfway into the tape. The tape must be recorded from the beginning of either side.

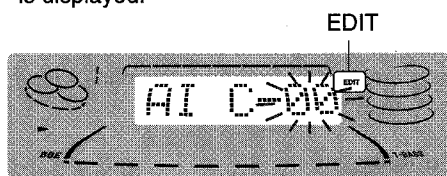
### 1 Insert the tape into deck 2.

Insert the tape with the side to be recorded on first facing out from the unit.

### 2 Press CD and load the disc(s).

### 3 Press CD EDIT/CHECK once.

"EDIT" is displayed.



• When "PRGM" is displayed, press CD EDIT/CHECK again.

### 4 Press DISC DIRECT PLAY 1-3 to select a disc.

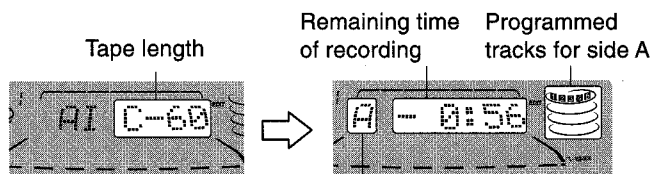
### 5 Press numbered buttons 0-9 on the remote control to designate the tape length.

10 to 99 minutes can be specified.

Example: When using a 60-minute tape, press 6 and 0.

In a few seconds, the tracks to be recorded on each side of the tape are determined.

• <<<, >>> or MULTI JOG are also available to designate the tape length.



Tape side  
A: First recording side  
B: Second recording side

### 6 Press ● REC/REC MUTE to start recording on the first side.

The tape is rewound to the beginning of the first side, the lead segment is played through for 10 seconds, and recording starts. When the last track programmed for side A is finished, deck 2 enters the recording stop mode. After entering the recording stop mode, go to step 7.

### 7 Press CD EDIT/CHECK to display the program for the second recording.

"B" is displayed.

### 8 Turn over the tape in deck 2 and press ● REC/REC MUTE to start recording on the second side.

#### To stop recording

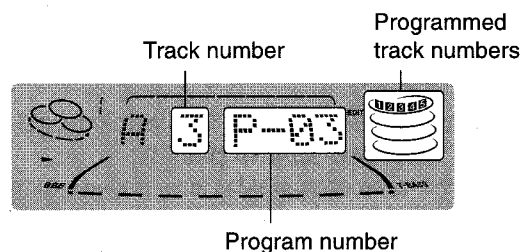
Press ■ CLEAR. Recording and CD play stop simultaneously.

#### To clear the edit program

Press ■ CLEAR twice so that "EDIT" disappears on the display.

#### To check the order of the programmed track numbers

Before recording, press CD EDIT/CHECK to select side A or B, and press <<< or >>> repeatedly.



#### To add tracks from other discs to the edit program

If there is any time remaining on the tape after step 5, you can add tracks from other discs in the CD compartment.

##### 1 Press CD EDIT/CHECK to select side A or B.

##### 2 Press DISC DIRECT PLAY 1-3 to select a disc.

##### 3 Press numbered buttons on the remote control to select tracks.

A track whose playing time is longer than the remaining time cannot be programmed.

##### 4 Repeat steps 2 and 3 to add more tracks.

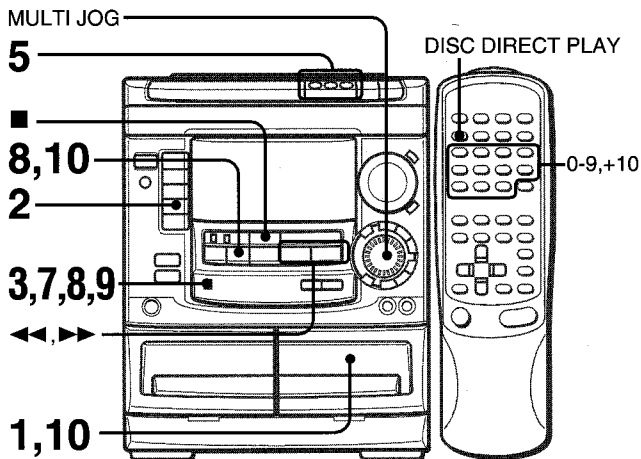
#### Time on cassette tapes and editing time

The actual cassette recording time is usually a little longer than the specified recording time printed on the label. This unit can program tracks to use the extra time. When the total recording time is a little longer than the tape's specified recording time after editing, the display shows the extra time (without a minus mark), instead of the time remaining on the tape (with the minus mark).

## NOTE

• The AI edit recording function cannot be used with discs containing 31 tracks or more.

# PROGRAMMED EDIT RECORDING



In the programmed edit recording function the tracks can be programmed while checking the remaining time on each side of the tape as the tracks are programmed.

## NOTE

The programmed edit recording will not start from a point halfway in the tape. The tape must be recorded on from the beginning of either side.

### 1 Insert the tape into deck 2.

Insert the tape with the side to be recorded on first facing out from the unit.

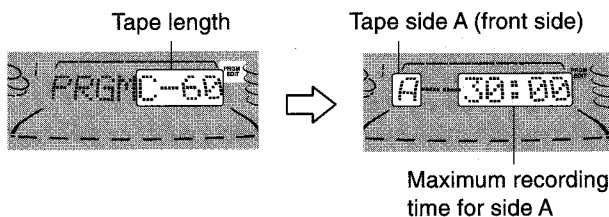
### 2 Press CD and load the disc(s).

### 3 Press CD EDIT/CHECK twice.

"EDIT" and "PRGM" are displayed.  
• When "AI" is displayed, press CD EDIT/CHECK again.

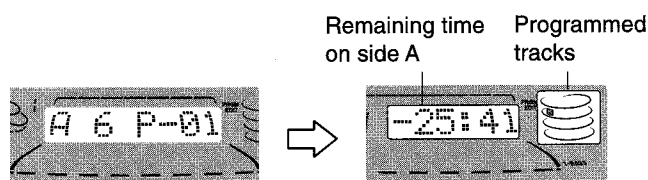
### 4 Press numbered buttons on the remote control to designate the tape length.

10 to 99 minutes can be specified.  
• The ◀▶, ▶▶ or MULTI JOG are also available to designate the tape length.



### 5 Press DISC DIRECT PLAY 1-3 to select a disc. Then, press numbered buttons 0-9 and + 10 on the remote control to program a track.

Example: To select the 10th track of disc 2, press DISC DIRECT PLAY 2, then press +10 and 0.



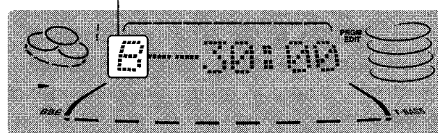
### 6 Repeat step 5 for the rest of the tracks for side A.

A track whose playing time is longer than the remaining time cannot be programmed.

### 7 Press CD EDIT/CHECK to select side B and program the tracks for side B.

After confirming "B" on the display, repeat step 5.

Tape side B (reverse side)



### 8 Press CD EDIT/CHECK to select side A and press ● REC/REC MUTE to start recording.

CD play and recording of edited tracks for the first side start simultaneously. When the last track programmed for side A is finished, deck 2 enters the recording stop mode. After entering the recording stop mode, go to step 9.

### 9 Press CD EDIT/CHECK for recording of the second side.

"B" is displayed.

### 10 Turn over the tape in deck 2 and press ● REC/REC MUTE to start recording.

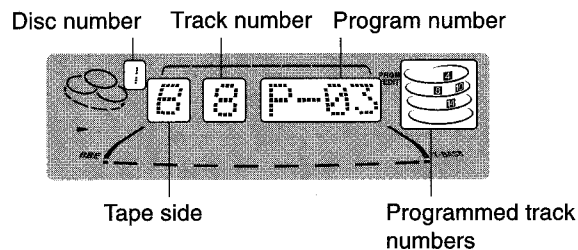
Recording starts.

### To stop recording

Press ■. Recording and CD play stop simultaneously.

### To check the order of the programmed track numbers

Before recording, press CD EDIT/CHECK to select side A or B, and press ◀▶ or ▶▶ repeatedly.



### To change the program of each side

Press CD EDIT/CHECK to select side A or B, and press ■ CLEAR to clear the program on the selected side. Then program tracks again.

### To clear the edit program

Press ■ CLEAR twice so that "EDIT" disappears on the display.

## NOTE

• Up to 30 tracks can be programmed from any of the inserted discs.

RECORDING

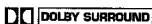
En

## DOLBY PRO LOGIC

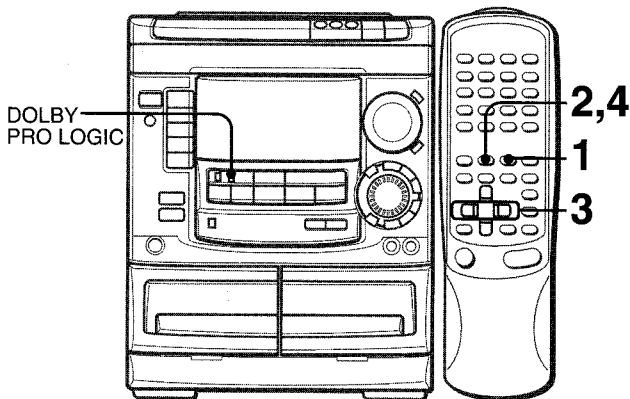
The DOLBY PRO LOGIC feature and the center and rear speakers (standard) assure full-scale home theater sound. When playing back laser discs or video software that have been recorded in Dolby Surround, astonishingly realistic sound surrounds the listener to create a new level of audio/visual entertainment.

Independent control of the four sound channels allows the listener to enjoy the same type of sound reproduction experienced in movie theaters. Voices are reproduced in the front and center sound field, while ambient sounds like cars and crowds are reproduced on all sides of the listener for an incredibly lifelike audio/video experience. Please read the following carefully to "tune" the system's output to match the characteristics of your listening space.

### Check the following:

- Before using the DOLBY PRO LOGIC, adjust the proper balance of speaker sound levels.
- Make sure the supplied speakers are properly connected and positioned. (See page 3 and 4)
- Make sure the TV set and video unit are properly connected. (See page 4)
- Make sure the laser disc, video tape, etc., support .

## ADJUSTING SPEAKER LEVEL BALANCE



The unit is equipped with a built-in test signal generator called a noise sequencer for easy balance adjustment of all 5 channels. The sequencer outputs a noise signal that "travels" from channel to channel, enabling the simple adjustment of sound level to achieve, at the listening position, the same apparent loudness from each channel.

Use the remote control.

### 1 Press DOLBY PRO LOGIC to select "NORMAL".

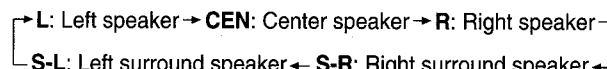
"NORMAL" lights up in red.

If "PHANTOM" or "3 STEREO" lights up in red, press **DOLBY PRO LOGIC** repeatedly until "NORMAL" is selected.

### 2 Press MANUAL SELECT (TEST) and hold it down for about 4 seconds until "L" flashes.



A noise signal is sent to each channel in turn in the following sequence.



### 3 Adjust the sound level of the center and the surround speakers.

While "CEN" "S-R" or "S-L" is displayed, press **◀ DOWN** or **▶ UP** to adjust the volume of the center or each surround speaker to match the level of the front speakers.



To adjust the balance between the left and right front speakers, see page 7. At this time, the DOLBY PRO LOGIC mode should be canceled by pressing **DOLBY PRO LOGIC** until the "P-OFF" is displayed.

### 4 Press MANUAL SELECT (TEST) again to stop the noise signal.

#### NOTE

- If the surround speakers or the center speaker level of the DOLBY PRO LOGIC is changed, that of the SURROUND system (page 11) and the DOLBY DIGITAL SURROUND (page 28) is also changed.
- While "S-L" or "S-R" is displayed, both surround speakers output the noise signal together. However, only the sound level of one surround speaker displayed as "S-L" or "S-R" can be adjusted.
- When the sequencer outputs a noise signal, a clicking sound might be heard from the speakers due to the characteristics of the circuit. This is not malfunction.

#### About the channels

**The left and right front speakers** create the stereo effect.

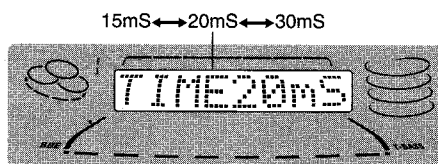
**The center speaker** helps achieve precise sound positioning over a broad sound field.

**The rear-mounted surround speakers** enhance the "depth" of the sound field.

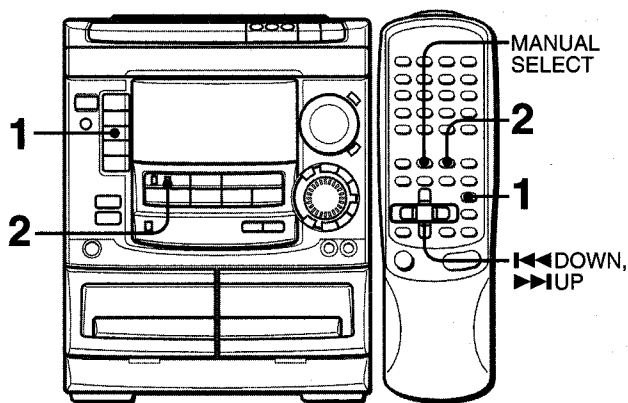
#### To change the delay time

The surround speakers reproduce sounds a split second after the front speakers. The delay is initially set to 20 ms (milliseconds).

To change this standard delay time, press **MANUAL SELECT (TEST)** on the remote control repeatedly until "TIME" is displayed. Then, press **◀ DOWN** or **▶ UP**. Each time one of the buttons is pressed, the delay time changes as shown below.



## PLAY WITH DOLBY PRO LOGIC



### 1 Press VIDEO/AUX/5.1 CH and start playback of the video source.

"VIDEO" is displayed.

If "5.1 ch IN" is displayed, press VIDEO/AUX/5.1 CH again.

### 2 Press DOLBY PRO LOGIC.

"NORMAL" is selected, and the playback sound has the DOLBY PRO LOGIC effect.

#### To cancel Dolby Pro Logic mode

Press DOLBY PRO LOGIC repeatedly until "P-OFF" is displayed.

#### To change the sound levels during playback

After adjusting the balance with the noise sequencer, the sound levels of the center or each surround speaker can be adjusted during playback of laser discs or video software.

1 Press **MANUAL SELECT (TEST)** on the remote control repeatedly to select "CEN" (center speaker) "S-L" (Left surround speaker) or "S-R" (Right surround speaker).

2 While the "CEN" "S-L" or "S-R" is displayed, press **DOWN** or **UP** on the remote control to adjust the volume.

## ADDITIONAL DOLBY PRO LOGIC MODES

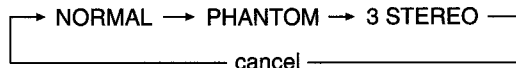
In addition to the NORMAL mode, this unit is also equipped with the PHANTOM and the 3 STEREO modes.

**PHANTOM mode:** Use this mode when no center speaker is connected. The center channel signals are output through the left and right speakers.

**3 STEREO mode:** Use this mode when no surround speakers are connected. This mode reproduces rear sounds through the front speakers.

#### To select PHANTOM or 3 STEREO


Press **DOLBY PRO LOGIC** repeatedly until the desired DOLBY PRO LOGIC mode is displayed. The DOLBY PRO LOGIC mode is displayed cyclically as follows.



#### To adjust the balance of connected speaker sound levels

Carry out steps 2 to 4 of "ADJUSTING SPEAKER LEVEL BALANCE".

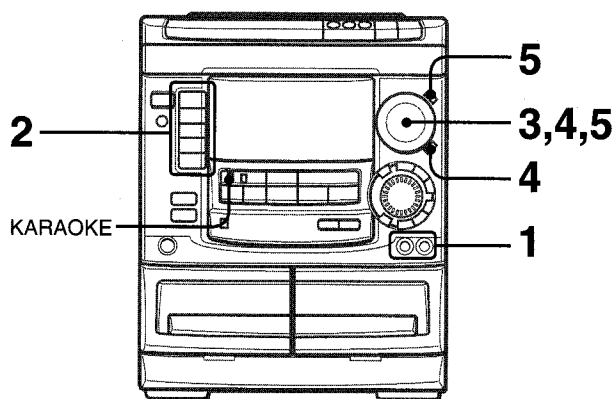
#### NOTE

- Depending on the sound source and/or listening conditions, a surround effect may not be obtained even when the DOLBY PRO LOGIC is on.
- The full DOLBY PRO LOGIC effect cannot be obtained when using software without  mark. In this case, use the SURROUND system instead. (See page 10.)
- The DOLBY PRO LOGIC is automatically canceled when:
  - the ECHO level is changed.
  - the SURROUND system or the BBE is turned on.
  - the headphones are plugged in.
  - the Karaoke function is turned on.
  - the 5.1 CH (page 28) is selected.
- Set the microphone volume to OFF while the DOLBY PRO LOGIC is on. Otherwise, the DOLBY PRO LOGIC sound cannot be reproduced correctly.

En

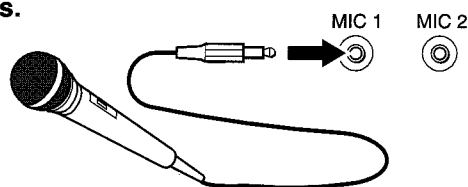
DOLBY PRO LOGIC

# MICROPHONE MIXING



Two microphones (not supplied) can be connected to this unit, allowing you to sing along to music sources. Use microphones with mini plugs ( $\varnothing 3.5$  mm,  $1/8$  inch).

## 1 Connect your microphones to MIC 1 and MIC 2 jacks.



## 2 Press one of the function buttons to select the source to be mixed, and play the source.

## 3 Adjust the volume and tone of the source.

## 4 Press MIC and turn VOLUME within 4 seconds to adjust the microphone volume.

The microphone volume can be selected from 1 to MAX (7) or OFF (cancel).

The volume of both microphones is adjusted simultaneously.

## 5 Press ECHO and turn VOLUME within 4 seconds to adjust the echo level.

The echo level can be selected from 1 to MAX (7) or OFF (cancel).

### To change the delay time of echo

Hold down **ECHO** while the echo is on.

"L" (Long) and "M" (Middle) are displayed alternately. At the desired position, release the button.

### To record microphone sound mixed with source sound

Follow the procedure for recording from the sound source (See page 17).

**SYNCHRO DUBBING** cannot be used for mixing recording.

### When not using the microphones

Set the microphone volume and echo level to OFF and remove the microphones from **MIC** jacks.

### NOTE

- When the ECHO level is changed, the SURROUND system and the DOLBY PRO LOGIC are automatically canceled.
- When the MIC or ECHO is turned on while the 5.1 CH (page 28) is selected, the 5.1 CH is changed to VIDEO.
- If a microphone is held too near the speakers, a howling sound may be produced. In this case, hold the microphone away from the speakers, or decrease the microphone volume.

- If sound through the microphone is extremely loud, it may be distorted. In this case, decrease the microphone volume.
- When the function is changed, the microphone volume and the echo volume are set to off.

### Recommended microphones

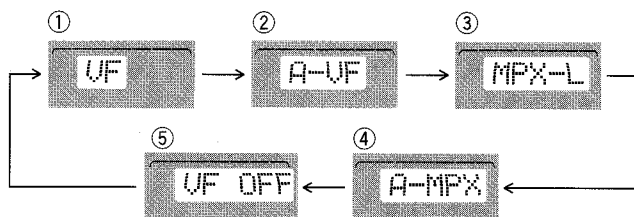
The use of unidirectional type microphones is recommended to prevent howling. Contact your local Aiwa dealer for details.

## VOCAL FADER/MULTIPLEX FUNCTIONS

This unit can use discs or tapes as Karaoke sources. Use the vocal fader function for ordinary discs or tapes. Use the multiplex function for multi audio discs or tapes.

### Press KARAOKE repeatedly to select the vocal fader or multiplex function.

Each time **KARAOKE** is pressed, one of these functions is selected cyclically.



#### 1 Vocal Fader

The singer's voice becomes softer than the accompaniment.

#### 2 Auto Vocal Fader

The singer's voice becomes softer only while there is audio input through a microphone.

#### 3 Multiplex

Only the sound on the left channel is heard from both speakers, and the sound on the right channel is muted.

#### 4 Auto Multiplex

The sound on the left channel is heard from both speakers, and the sound on the right channel is muted only while there is audio input through a microphone.

#### 5 Cancel

### To change the time lag setting in Auto Vocal Fader or Auto Multiplex function

The muted original singer's voice can be turned faster than the normal level.

When Auto Vocal Fader or Auto Multiplex is selected, "A-VF" or "A-MPX" is displayed for 3 seconds and changes to the selected function name. After the selected function name is displayed, keep pressing KARAOKE until "FAST" is displayed.

To return to the initial setting, select SLOW.

When the power is turned off, SLOW is restored.

### To change the audible channel in Multiplex function

When Multiplex is selected, "MPX-L" is displayed for 3 seconds and changes to the selected function name. After the selected function name is displayed, keep pressing KARAOKE until "MPX-R" is displayed.

To return to the initial setting, select MPX-L.

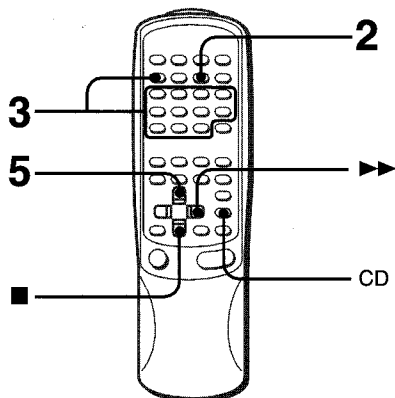
When the power is turned off, MPX-L is restored.

### NOTE

- The Karaoke functions may not operate correctly with the following kinds of CDs or tapes.
  - Those with monaural sound
  - Those recorded with strong echoes
  - Those with the vocal part recorded on the right or left side of the sound width
- While the Karaoke function is on, the sound is output as monaural.
- When the function is changed, the Karaoke function is canceled.



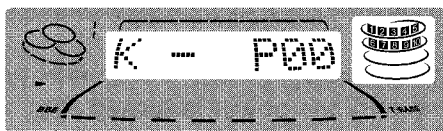
# KARAOKE PROGRAM



Before or during CD play, you can reserve up to 15 tracks to be played after the current track. Each reservation is cleared when it finishes playing.

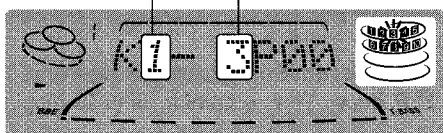
Use the remote control.

- 1 Press CD and load the discs.
- 2 Press PRGM once.



- 3 Press DISC DIRECT PLAY, then press numbered buttons 1-3 within 3 seconds to select a disc. Then, press numbered buttons 0-9 and + 10 to program a track.

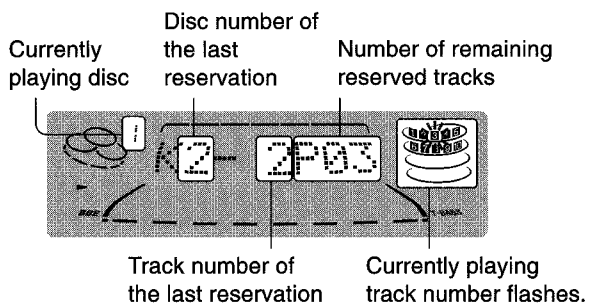
Reserved disc number      Reserved track number



- 4 Repeat step 3 to reserve other tracks.

- 5 Press ◀▶ to start play.

After a track is played, it is cleared from the program.



## To add a reservation during play

Repeat step 3.

## To check the reserved tracks

Press CD EDIT/CHECK repeatedly. Each time it is pressed, the disc number and track number are displayed in the reserved order.

## To stop play

Press ■.

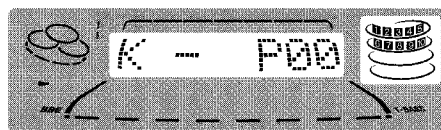
When ◀▶ is pressed, the play starts from the last track again.

## To skip a current track

Press ▶▶. The skipped track is cleared from the program.

## To clear all the reservations

Press ▶▶ repeatedly until "K - P00" is displayed.



Press it once more to cancel the Karaoke programs. The display returns to that of CD play.

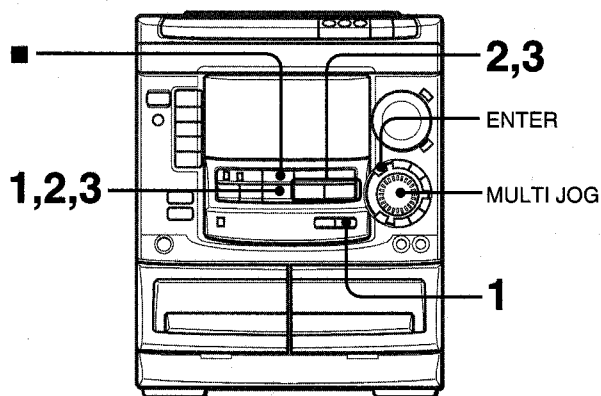
## NOTE

- If the reserved track number does not exist on the selected disc, the unit stops playing and the display flashes. In this case, press ▶▶ to skip the error track. Then press ◀▶ to start play with the next reserved track.
- When PRGM is pressed repeatedly in step 1, PRGM is displayed and the unit enters CD program play mode (page 16). To cancel program play, press ■ CLEAR.

En

KARAOKE

## SETTING THE CLOCK



**1 Press CLOCK, then press **||** SET within 4 seconds.**



**2 Press **◀** DOWN or **▶** UP to designate the hour, then press **||** SET.**

The hour stops flashing and the minute starts flashing.

**3 Press **◀** DOWN or **▶** UP to designate the minute, then press **||** SET.**

The minute stops flashing on the display and the clock starts from 00 seconds.

### To display the current time

Press **CLOCK**. The time is displayed for 4 seconds. However, the time cannot be displayed during recording.

### To switch to the 24-hour standard

Press the **CLOCK** and then press **■** within 4 seconds. Repeat the same procedure to restore the 12-hour standard.

### If the clock display flashes

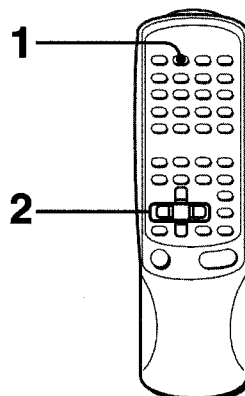
This is caused by a power interruption. The current time needs to be reset.

If power is interrupted for more than approximately 24 hours, all settings stored in memory after purchase need to be reset.

\* **MULTI JOG** is also available instead of **◀** and **▶**.

\* **ENTER** is also available instead of **||** SET.

## SETTING THE SLEEP TIMER



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

Use the remote control.

**1 Press SLEEP.**



**2 Within 4 seconds, press **◀** or **▶** 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



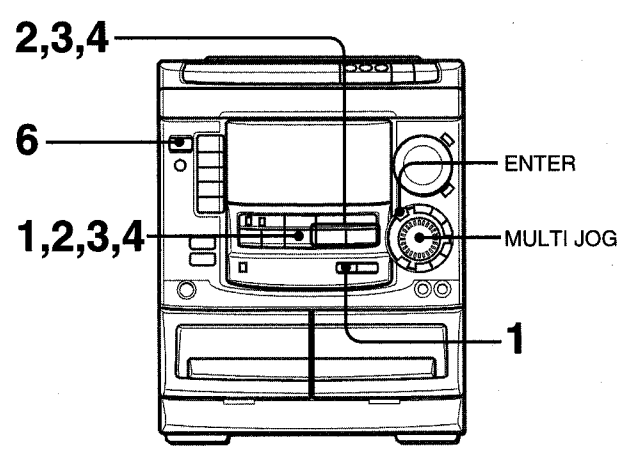
**To check the time remaining until the power is turned off**  
Press **SLEEP** once. The remaining time is displayed for 4 seconds.

### To cancel the sleep timer

Press **SLEEP** twice so that "SLEEP OFF" appears on the display.

\* **MULTI JOG** is also available instead of **◀** and **▶**.

# SETTING THE TIMER



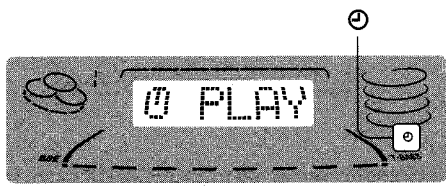
The unit can be turned on at a specified time every day with the built-in timer.

**Preparation**

Make sure the clock is set correctly.

**1 Press TIMER repeatedly to display ☉, then press **|| SET** within 6 seconds.**

☉ is displayed and the hour flashes.



**NOTE**

If you press **|| SET** after 6 seconds, another operation may start.

**2 Designate the hour of the timer-on time by pressing **◀ DOWN** or **▶ UP**, then press **|| SET**.**

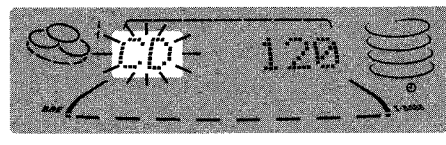
Repeat to designate the minute of the timer-on time.



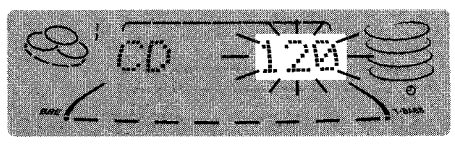
After you designate the timer-on time, one of the source names flashes on the display.

**3 Press **◀ DOWN** or **▶ UP** to select a source, then press **|| SET**.**

• If TUNER is selected, the band cannot be selected in this step.



**4 Select the duration for the timer-activated period with **◀ DOWN** or **▶ UP**, then press **|| SET**.**



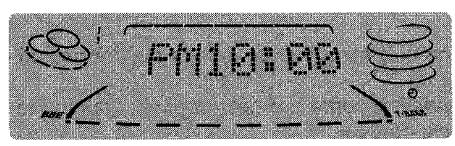
The duration for the timer-activated period can be set between 5 and 240 minutes in 5-minute steps.

**5 Prepare the source.**

- To listen to a CD, load the CD to be played first on tray 1.
- To listen to a tape, insert the tape into deck 1 or 2.
- To listen to the radio, tune in to a station.

**6 Press POWER to turn the unit off after adjusting the volume and tone.**

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



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

The volume level is automatically set to 20 when the power is turned off with the volume level set to 21 or more.

**To check the specified time and source**

Press **TIMER** twice. The timer-on time, the selected source name and the duration for the timer-activated period are displayed for 4 seconds.

**To cancel timer standby mode temporarily**

Press **TIMER** repeatedly until ☉ or ☉REC disappears on the display.

To restore the timer standby mode, press **TIMER** repeatedly to display ☉ or ☉REC.

**Using the unit while the timer is set**

You can use the unit normally after setting the timer. Before turning off the power, carry out step 5 to prepare the source, and adjust the volume and tone.

**NOTE**

- Timer playback and timer recording 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.

\* **MULTI JOG** is also available instead of **◀** and **▶**.  
 \* **ENTER** is also available instead of **|| SET**.

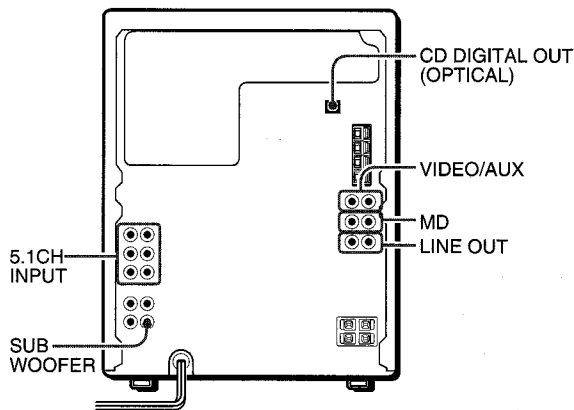
## TIMER RECORDING

Timer recording is applicable for TUNER and VIDEO/AUX (with an external timer) sources only.

Press **TIMER** repeatedly until ☉ REC appears on the display, then press **|| SET** within 6 seconds. Carry out the steps of "SETTING THE TIMER" from step 2 and insert the tape to be recorded on into deck 2 after step 5.

En

## 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.

### VIDEO/AUX JACKS

This unit can input analog sound signals through these jacks. Use a cable with RCA phono plugs to connect audio equipment (DVD player, turntables, LD players, MD players, VCRs, TV, etc.). Connect the red plug to **VIDEO/AUX R** jack, and the white plug to **VIDEO/AUX L** jack.

#### When connecting a turntable

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

### MD JACKS

This jack is recommended to connect with an MD player. Use a cable with RCA phono plugs. Connect the red plug to **MD R** jack, and the white plug to **MD L** jack.

### LINE OUT JACKS

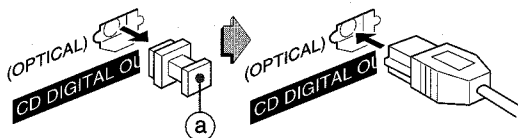
This unit can output analog sound signal through these jacks. Use a cable with RCA phono plugs to connect audio equipment with **LINE IN** (analog input) jacks. Connect the red plug of a cable to **LINE OUT R** jack, and the white plug to **LINE OUT L** jack.

#### NOTE

Do not connect an equipment to **LINE OUT** jacks and **VIDEO/AUX** jacks simultaneously. Otherwise, noise is generated and malfunction occurs.

### CD DIGITAL OUT (OPTICAL) JACK

This unit can output CD digital sound signals through this jack. Use an optical cable to connect digital audio equipment (DAT deck, MD recorder, etc.). Remove the dust cap (a) from **CD DIGITAL OUT (OPTICAL)** jack. Then, connect an optical cable plug to **CD DIGITAL OUT (OPTICAL)** jack.



**When CD DIGITAL OUT (OPTICAL) jack is not being used**  
Attach the supplied dust cap.

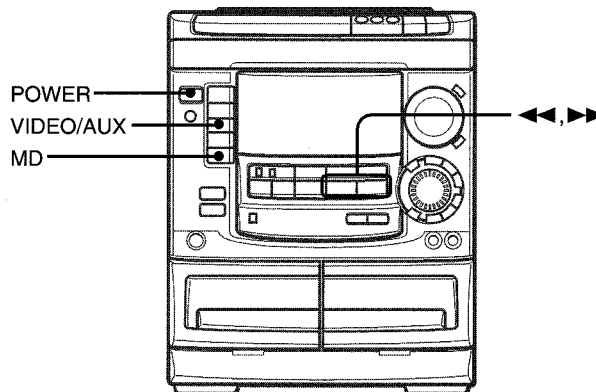
### SUB WOOFER JACK <math>\blacktriangleleft</math> JACK

Connect an optional powered sub woofer with built-in-amplifier to the jack.

### 5.1 CH INPUT JACKS

This unit can input sound signals from the audio equipment (DVD player, LD player, etc.) that contains a Dolby Digital decoder with the 5.1 ch output terminals. Refer to "CONNECTING A DVD PLAYER" on page 28.

## LISTENING TO EXTERNAL SOURCES



To play a equipment connected to **VIDEO/AUX** jacks or **MD** jacks proceed as follows.

#### 1 Press VIDEO/AUX/5.1 CH or MD.

To play the equipment connected to **VIDEO/AUX**, press **VIDEO/AUX/5.1 CH**. "VIDEO" appears on the display.

To play the equipment connected to **MD**, press **MD**. "MD" appears on the display.

#### 2 Play the connected equipment.

#### To change a source name in the display

When **VIDEO/AUX/5.1 CH** is pressed, "VIDEO" is displayed initially. It can be changed to "AUX" or "TV".

With the power on, press **POWER** while pressing **VIDEO/AUX/5.1 CH**.

Repeat the procedure to select one of the names.

#### To adjust the sound level of the external source

When the sound level of the external source is much higher or much lower than that of other function sources, adjust it as follows.

- 1 Press **VIDEO/AUX/5.1 CH** or **MD** and play the equipment.
- 2 Press **◀** or **▶** so that the sound level becomes the same as that of other function sources.

#### NOTE

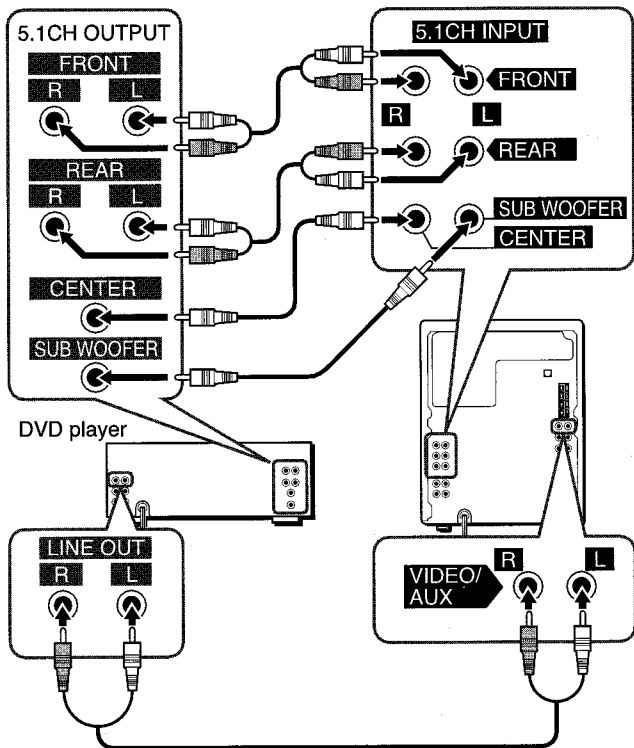
During recording, the sound level can not be adjusted.

## CONNECTING A DVD PLAYER

5.1CH INPUT jacks of this unit support the DOLBY DIGITAL SURROUND system.

Connect a DVD player with 5.1CH output jacks to this unit using cables with RCA phono plugs as follows:

DVD player's jack	This unit's jack
5.1CH OUTPUT FRONT (L,R), etc.	5.1CH FRONT (L,R)
5.1CH OUTPUT REAR (L,R), etc.	5.1CH REAR (L,R)
5.1CH OUTPUT CENTER, etc.	5.1CH CENTER
5.1CH OUTPUT SUB WOOFER, etc.	5.1CH SUB WOOFER
LINE OUT (L, R), etc.	VIDEO/AUX (See <b>NOTE</b> .)



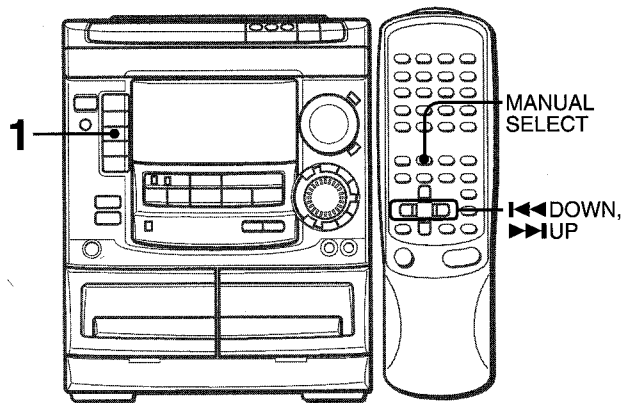
### NOTE

- If the DVD is not connected to VIDEO/AUX jack of this unit;
    - the spectrum analyzer dose not show the sound level of the DVD player.
    - the sound from the connected DVD player cannot be recorded.
- To remove these limitations, connect LINE OUT jacks of the DVD player to VIDEO/AUX jacks of this unit besides connecting to 5.1CH INPUT jacks. The signals through VIDEO/AUX jacks enable the spectrum analyzer to work and the recording to be done.

Refer also to the operating Instructions of the DVD player.

- DOLBY DIGITAL SURROUND sound cannot be recorded in any way.

## LISTENING TO DOLBY DIGITAL SURROUND SOUND



When a DVD player is connected to 5.1CH INPUT jacks of this unit, you can listen to DOLBY DIGITAL SURROUND sound, which enables you to enjoy theater-quality sound in your home.

- Press VIDEO/AUX/5.1CH repeatedly until "5.1 ch IN" is displayed.
- Start playing DOLBY DIGITAL SURROUND sound on the DVD player.

### NOTE

- The DOLBY PRO LOGIC, BBE and the SURROUND are automatically canceled when the 5.1 CH is selected.
- Make sure the software played back with the connected DVD player support the DOLBY DIGITAL SURROUND.
- The function is changed from the 5.1 CH to the VIDEO when;
  - the headphones are plugged in.
  - the MIC or ECHO level is changed.
  - the SURROUND system, the DOLBY PRO LOGIC or the Karaoke function is turned on.

### To adjust the sound levels of the center and surround speakers in DOLBY DIGITAL SURROUND

- Press VIDEO/AUX/5.1CH repeatedly until "5.1 ch IN" is displayed.
- Press MANUAL SELECT (TEST) repeatedly. Speaker names appear in turn as follows;
 

L/R (Speaker balance) → CEN: Center speaker

S-R: Left surround speaker ← S-L: Right surround speaker ←
- Press ◀ DOWN or ▶ UP to adjust the sound level while "CEN", "S-L" or "S-R" is displayed. Each level can be adjusted between -8dB and +7dB.
- Repeat steps 2 and 3 to adjust each speaker's sound level.

### NOTE

If the surround speakers or the center speaker level of the DOLBY DIGITAL SURROUND is changed, that of the SURROUND system (page 11) and the DOLBY PRO LOGIC (page 21) is also changed.

## 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

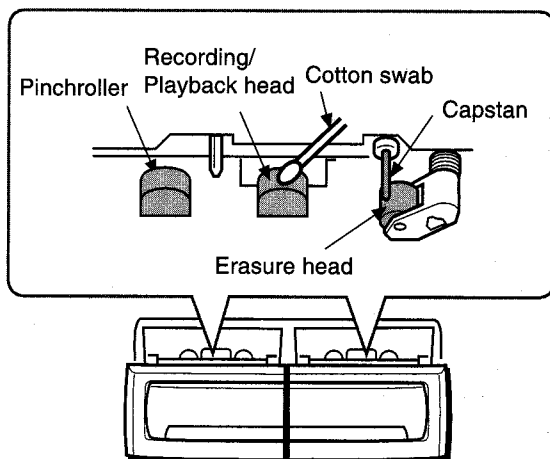
Use a soft and dry cloth.

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

### To clean the heads and tape paths

After every 10 hours of use, clean the heads and tape paths with a head cleaning cassette or cotton swab moistened with cleaning fluid or denatured alcohol. (These cleaning kits are commercially available.)

When cleaning with a cotton swab, wipe the recording/playback head (deck 2 only), erasure head (deck 2 only), capstans, and pinchrollers.



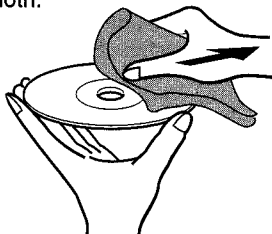
After cleaning the heads and tape paths with a liquid head cleaning cassette or a moistened swab, wait until the cleaned parts are completely dry before inserting the tapes.

### To demagnetize the heads

The heads may become magnetized after long-term use. This may narrow the output range of recorded tapes and increase noise. After 20 to 30 hours use, demagnetize the heads with any commercially available demagnetizer.

### Care of discs

- 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.

### Care of tapes

- Store tapes in their cases after use.
- Do not leave tapes near magnets, motors, television sets, or any source of magnetism. This will downgrade the sound quality and cause noise.
- Do not expose tapes to direct sunlight, or leave them in a car parked in direct sunlight.

## 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)
- There may be a short circuit in the speaker terminals.
  - Disconnect the AC cord, then correct the speaker connections.
- Was an incorrect function button pressed?

#### Sound is emitted from one speaker only.

- Is the other speaker disconnected?

#### The output sound is not stereo.

- Is the Karaoke function turned on? (→ page 23)

#### 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.

### CASSETTE DECK SECTION

#### The tape does not run.

- Is deck 2 in pause mode? (→ page 13)

#### The sound is off-balance or not adequately high.

- Is the playback head dirty? (→ page 29)

#### Recording is not possible.

- Is the erasure prevention tab on the tape broken off? (→ page 14)
- Is the recording head dirty? (→ page 29)

#### Erase is not possible.

- Is the erasure head dirty? (→ page 29)
- Is a metal tape being used?

#### High frequency sound is not emitted.

- Is the recording/playback head dirty? (→ page 29)

### CD PLAYER SECTION

#### The CD player does not play.

- Is the disc correctly placed? (→ page 15)
- Is the disc dirty? (→ page 29)

### To reset

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

- 1 Press **POWER** to turn off the power.
- 2 Press **POWER** to turn the power back on while pressing **■ CLEAR**. 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 the AC cord, and connect it again. Then carry out step 2.

# SPECIFICATIONS

## Main unit CX-NMT520

### 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 $\mu$ V/m
Antenna	Loop antenna

### Amplifier section

Power output	<b>Front</b>
	40 W + 40 W (50 Hz – 20 kHz, THD less than 1%, 6 ohms)
	<b>Rear (Surround)</b>
	20 W + 20W (50 Hz – 20 kHz, THD less than 1%, 8 ohms)

<b>Center</b>
20 W (50 Hz – 20 kHz, THD less than 1%, 8 ohms)

Total harmonic distortion	0.1 % (30 W, 1 kHz, 6 ohms, DIN AUDIO/Front)
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Inputs	VIDEO/AUX: 150 mV (adjustable)
	MD: 150 mV (adjustable)
	MIC 1, MIC 2: 1.0 mV (10 kohms)
	5.1CH INPUT

FRONT (L,R): 400 mV
REAR (L,R): 270 mV
CENTER: 270 mV
SUB WOOFER: 400 mV

Outputs	LINE OUT: 200 mV
	SUB WOOFER: 1.0 V
	SPEAKERS: accept speakers of 6 ohms or more
	SURROUND SPEAKERS: accept speakers of 8 ohms to 16 ohms
	CENTER SPEAKER: accept speakers of 8 ohms or more
	PHONES (stereo jack): accepts headphones of 32 ohms or more

### Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 15000 Hz
Recording system	AC bias
Heads	Deck 1: Playback head $\times$ 1
	Deck 2: Recording/playback head $\times$ 1, erase head $\times$ 1

### Compact disc player section

Laser	Semiconductor laser ( $\lambda = 780$ nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

### General

Power requirements	120 V AC, 60 Hz
Power consumption	160 W
Dimensions of main unit (W $\times$ H $\times$ D)	260 $\times$ 329.1 $\times$ 344.5 mm (10 $\frac{1}{4}$ $\times$ 13 $\times$ 13 $\frac{5}{8}$ in.)
Weight of main unit	7.6 kg (16 lbs 12 oz.)

## Speaker system SX-NA502


Cabinet type	3 way, bass reflex (magnetic shielded type)
Speakers	Woofer: 140 mm (6 $\frac{3}{8}$ in.) cone type
	Tweeter: 60 mm (2 $\frac{3}{8}$ in.) cone type
	Super tweeter: 10 mm (1 $\frac{9}{16}$ in.) ceramic type
	Impedance 6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W $\times$ H $\times$ D)	235 $\times$ 324 $\times$ 250 mm (9 $\frac{3}{8}$ $\times$ 12 $\frac{7}{8}$ $\times$ 9 $\frac{7}{8}$ in.)
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.

### DOLBY PRO LOGIC

Manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY", the double-D symbol  and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

### COPYRIGHT

Please check the laws on copyright relating to recordings from discs, radio or external tape for the country in which the machine is being used.

### 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.

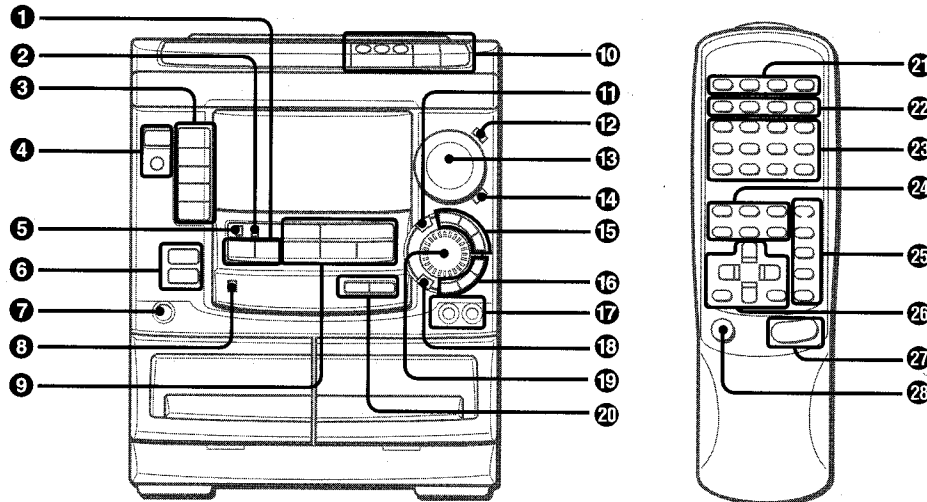
### CAUTION

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.

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For assistance and information

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