
AIWA

COMPACT DISC STEREO SYSTEM

NSX-MTD9



OPERATING INSTRUCTIONS



PRECAUTIONS pg. 1

WARNING

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



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

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 (you will find it at the bottom of the unit) and serial number (you will find it in the battery compartment) 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-NMTD9
SX-ND8
SX-C605
SX-R275

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, kitchen sink, laundry tub, in a wet basement, 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.

Do not walk on the power cord or pinch it by items placed upon or against it, as these could result in fire or shock.

- 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 Nonuse periods - Unplug the AC power cord from the AC power plug 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.

PRECAUTIONS (cont.) pg. 2

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 Electric Code, ANSI/NFPA70, 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.

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
- 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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PREPARATIONS pg. 3

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

CX-NMTD9 Compact disc stereo cassette receiver

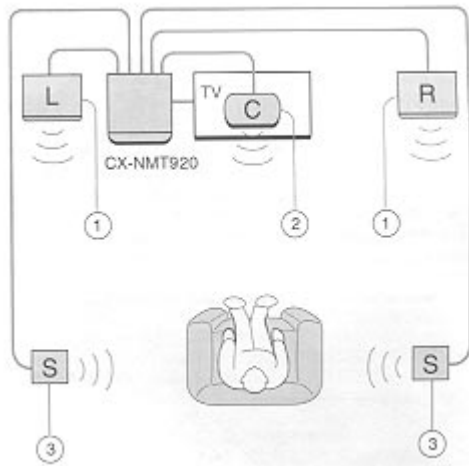
SX-ND8 Front speakers
SX-R275 Surround speakers
SX-C605 Center speaker



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 30) are set to off.
- The center speaker sounds when the DOLBY PRO LOGIC or the 5.1 CH (page 30) 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.

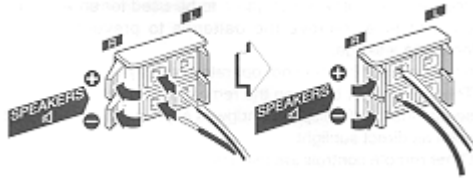
IMPORTANT

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

There are no differences between the front speakers as well as the surround speakers. Both speakers of its kind can be connected as L (left) or R (right).

1 Connect the right and left speaker to the main unit.

Connect the right speaker cord to **SPEAKERS R** terminals, and the left to **SPEAKERS L** terminals.



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

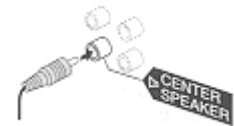
2 Connect the surround speakers to the main unit.

Connect the right surround speaker cord to the **SURROUND SPEAKERS R** terminal, and left to the **SURROUND SPEAKERS L** terminal.



3 Connect the center speaker.

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

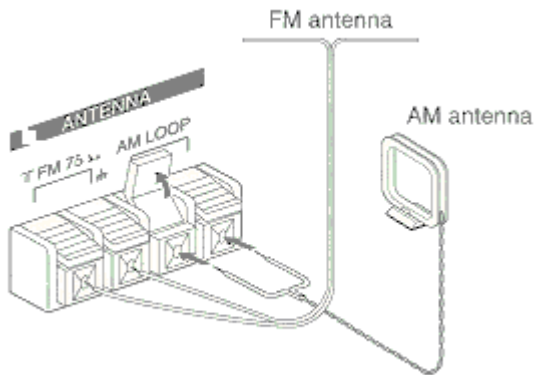


PREPARATIONS (cont) pg. 4

Click to see diagram....

4 Connect the supplied antennas

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



5 Connect the video equipment.

Connect the **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.

- The game Demo will begin when the AC cord is plugged into an AC outlet. See page 6 "Game Demo" for details.

To position the antennas

FM feeder antenna:

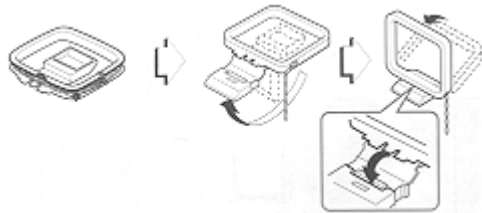
Extend this antenna horizontally in a T-shape and fix its ends to the wall.

AM antenna:

Position to find the best possible reception.

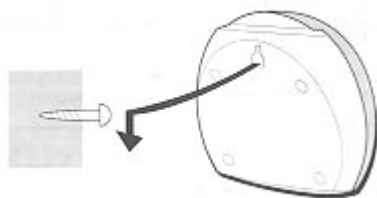
To stand the AM antenna on a surface

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.



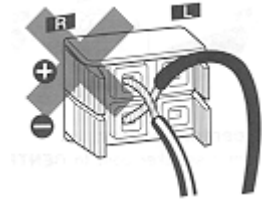
NOTE

Sound is not heard from the surround D.Ph.s when the SURROUND is set to off.

PREPARATIONS (cont) pg. 5

NOTE

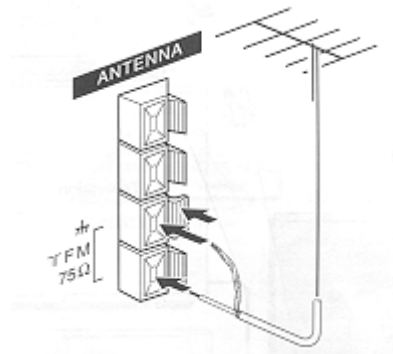
• Be sure to connect the speaker cords correctly. Improper connections can cause short circuits in the **SPEAKERS** terminals.



- 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 terminals.



To connect other optional equipment → page 29 and 30.

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

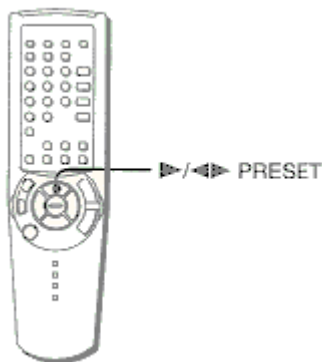
The maximum operational distance between the remote control and the sensor on the main unit should be approximately 5 meters (16 feet). When this distance decreases, replace the batteries with new ones.

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.

▶/◀▶ PRESET on the remote control

This function is the same as that of ◀▶ on the main unit.

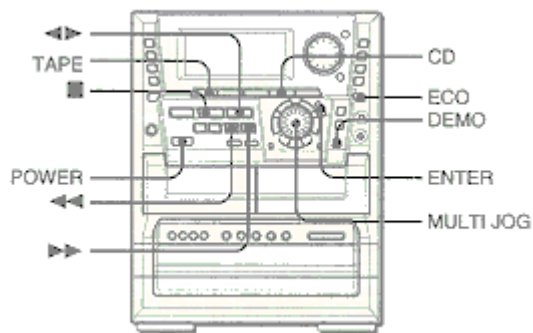


NOTE

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

PREPARATIONS (cont) pg. 6

BEFORE OPERATION



To turn the power on

Press one of the function buttons (**TAPE**, **TUNER**, **VIDEO/AUX**, **CD**, **MD**).

Playback of the inserted disc 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**.


Illumination guides

Whenever one of the function buttons is pressed, the buttons for that operation light up or flash.

Flash windows

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

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

To turn off the light of the cassette decks, press  while pressing **TAPE**. To turn back on, repeat the above.

• Do not perform this operation during recording.

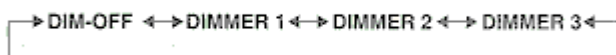
To change the brightness level of the display

1 Press **ECO** so that "ECO MODE" is displayed.

2 Within 4 seconds, turn **MULTI JOG** to display "DIM MODE", and then press **ENTER** within 4 seconds.

3 Within 4 seconds, turn **MOULTING** to select the dimmer mode as below

The mode will be automatically set after 4 seconds. It will also be set if **ENTER** is pressed within 4 seconds after step 3..



DIM-OFF: 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 window of the CD compartment and the buttons lamps light off.

NOTE

If the timer recording (page 26) is done with the economizing mode (page 6) set to "ON" and the power turns off, the dimmer mode will be set to "DIMMER" the next time power is turned on.

Game Demo

When the AC cord is plugged in for the first time after purchase, the game Demo will begin in the display. When the power is turned on, the game Demo will end.

Until the clock is set, the game Demo will automatically begin whenever the power is turned off.

To play the game DEMO

Press **DEMO** whether the unit is turned on or odd, and whether the clock has been set or not.

With the power switched off, the game is silent. With the power switched on, it is livened up with sound.

1 Press ◀▶

Three numbers on the display start to run

2 Press ■ once

The number on the left side stops

3 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.

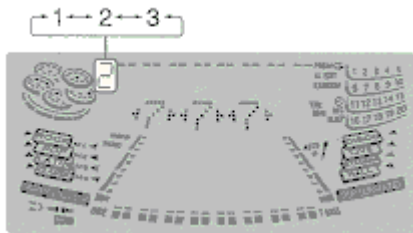
If the gained points fall to 0, you lose.

To reset the game Demo, press **DEMO** twice.

To cancel the game Demo, press **DEMO**.

To change the probability of equalizing the three number

Press ◀◀ or ▶▶ repeatedly to select one of the three probability levels when playing the game Demo. The tray number indicator in the display changes between 1 and 3. As the tray number increases from 1 to 3, the higher the probability of equalizing.

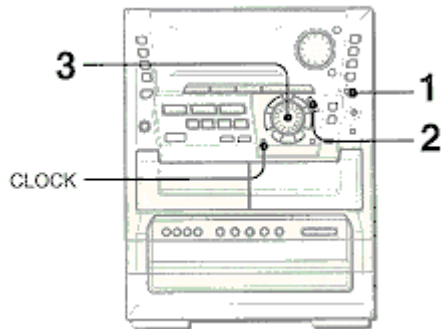


To mute the game sound

First, cancel the game Demo by pressing **DEMO**. Then, keep pressing **DEMO** until "🎵 OFF" is displayed. To restore the game sound, keep pressing **DEMO** again until "🎵 ON" is displayed.

NOTE

- While 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 might up on the display.
- To change the game sound, see "RHYTHM PLAY FUNCTION" on page 8.
- During recording, DEMO is not operative.
- The game Demo and the game sound are automatically canceled if the colone is adjusted while the unit is turned on.



SETTING THE POWER ECONOMIZING MODE

Setting this unit power economizing mode reduces power consumption as follows.

- When the power is turned off, all the display lights turned off. However, if the clock is not set, the game Demo will begin when the power is turned off.
- If CD, Tape or Rhythm play function (page 8) does not play for 10 minutes or if there is no audio input from any connected external equipment for 10 minutes when VIDEO/AUX or MD is selected as the source, the power shuts off.
- When the power turns on due to timer recording (page 28), the display brightness level is set to "DIMMER" (page 6), all button lamps are off, and the volume is set to minimum level (0).
- The display brightens only when operating the unit. When the unit has not been used for 10 seconds, the brightness level switches to the mode previously selected in "DIM MODE". (Page 6)
(If the display brightness is set to "DIM-OFF", the brightness does not change. When the level is "DIMMER 3", the button lamps are also turned off.)

1 Press ECO.

"ECO MODE" will be displayed.



2 Press ENTER within 4 seconds.

The current power-economizing mode status will be displayed.

If the power-economizing mode is OFF: ECO OFF.

If the power economizing mode is ON: ECO ON.

3 Turn MULTI JOG within 4 seconds to switch the power-economizing mode on or off.

Example: When "ON" is selected.



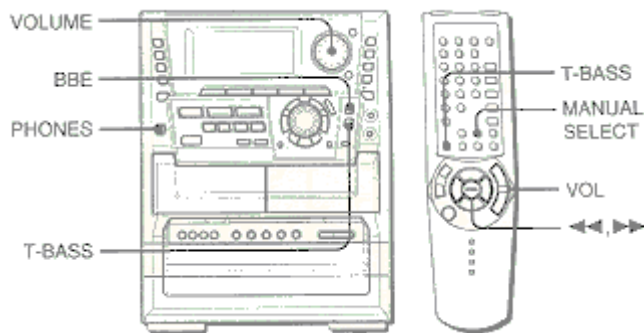
The mode will be automatically set after 4 seconds. It will also be set if **ENTER** is pressed within 4 seconds after step 3.

NOTE

To view the clock when all the display lights turn off, press **CLOCK** so that the time is displayed for 4 seconds.

SOUND pg. 7

AUDIO ADJUSTMENTS



VOLUME

Turn VOLUME on the main unit, or press VOL 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 ◀◀ or ▶▶ on the remote control within these 2 seconds.

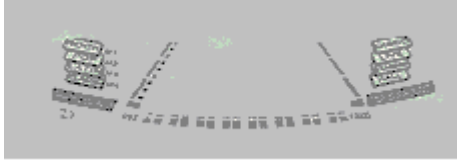
- The DOLBY PRO LOGIC (page 23), the DOLBY DIGITAL SURROUND (page 30) and the DSP SURROUND (page 12) front speakers level is also changed.

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.



NOTE

- When playing back a tape recorded with BBE, it is recommended that BBE be set to off to avoid distorted high frequency sound.
- The BBE system does not perform while the 5.1 CH (page 30) or the DOLBY PRO LOGIC (page 23) is selected.

SOUND (cont) pg. 8

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.

Using the headphones

Connect the headphones to PHONES with a stereo standard plug (Ø 6.3 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 (page 12), the DOLBY PRO LOGIC (page 23) and the 5.1 CH (page 30) do not function.

RHYTHM PLAY FUNCTION (BEAT MASTER DX)

USING THE BEAT FUNCTION

This unit has a library of rhythm patterns from which you can select the desired one to add to the playback of any music sources, thus allowing you to create your original sounds.

The mix created with the BEAT function can be recorded on tape if you want to. Also, the mix is available at **LINE OUT**.

NOTE

The BEAT function is not available when making a tape copy between two tape decks using SYNC DUB.

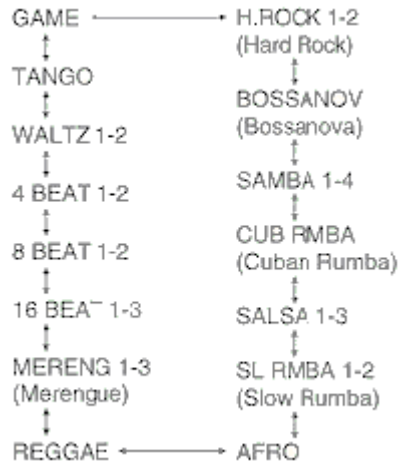
To select a rhythm pattern

1 Press BEAT ON/OFF to switch the function on.

One of the rhythm patterns is displayed.

2 Turn MULTI JOG to select the desired rhythm pattern.

The rhythm pattern is displayed cyclically as follows.



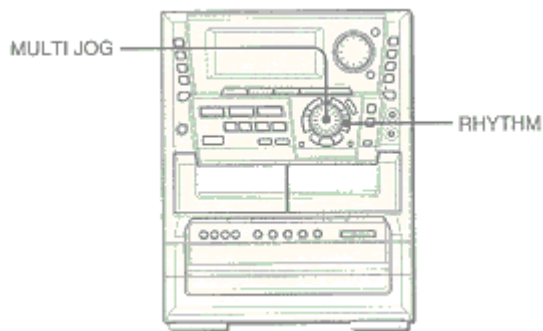
NOTE

The Rhythm Play function is canceled when the 5.1 CH (page 30) is selected.

These voice wave data incorporated in this product are Yamaha Corporation's copyrightable property and we are licensed by Yamaha Corporation.

SOUND (cont) pg. 9

To adjust the tempo of the rhythm pattern



1 Press RHYTHM repeatedly until "Tempo XXX" is displayed.

NOTE

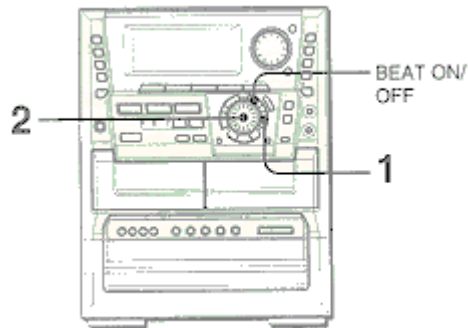
If "AUTO" shows while you are pressing **RHYTHM**, change it to "MANUAL" by turning **MULTI JOG** to the left. In AUTO mode the tempo is automatically set and you cannot access the display of "Tempo".

2 Turn MULTI JOG to select the rhythm tempo.

The tempo can be changed from 81 to 160.

NOTE

The tempo of GAME is not adjustable.

To change the volume level of the rhythm pattern

1 Press **RHYTHM** repeatedly until "LEVEL X" is displayed.



2 Turn **MULTI JOG**.

Three levels, 1-3, are available.

To stop the beat function

Press **BEAT ON/OFF**.

BEAT toggles between On and Off.

NOTE

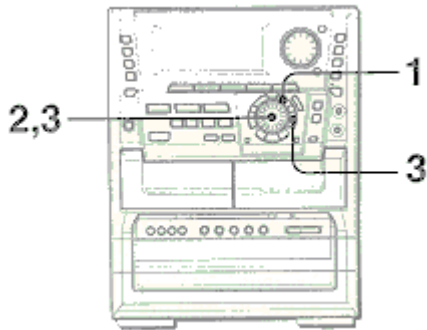
When you interrupt or stop the playback of the sound source, the BEAT function is automatically switched off.

Using the AUTO mode

The AUTO mode automatically adjusts the tempo of the current rhythm pattern so it coincides with the tempo of the music.

NOTE

Depending on the music the AUTO mode may not work correctly (with songs whose tempo is fuzzy, or is varying, for example).



You can let the music start playing before performing step 1 or later at the desired moment.

1 Press BEAT ON/OFF to switch the function on.

You will hear the current rhythm pattern.

2 Turn MULTI JOG to select the desired rhythm pattern.

3 Press RHYTHM once while the selected rhythm pattern is displayed, then turn MULTI JOG to select "AUTO".

While the unit is trying to get synced up to the tempo of the music, a cascade-like indicator will flash on the sides of the graphic equalizer display section.



When the unit gets synced up to the tempo of the music, the display will momentarily read the synced-up tempo.

Depending on sound sources (such as, songs whose tempo is varying), however, you may see different tempos appearing one after the other in the display.

After one synced up, if the sync lock unlocks, the display will read "BEAT OUT", and again the unit will try to get synced up.

At the occurrence of BEAT OUT, the level of the rhythm is automatically reduced to "1"; and it increases back to the preset level when sync is achieved again.

NOTE

The BEAT function can be used together with the SPICE A/B function, as well as with the FILL IN function. But the AUTO SPICE function cannot be used at the same time as the BEAT function.

SOUND (cont) PG. 10

USING THE FILL IN FUNCTION

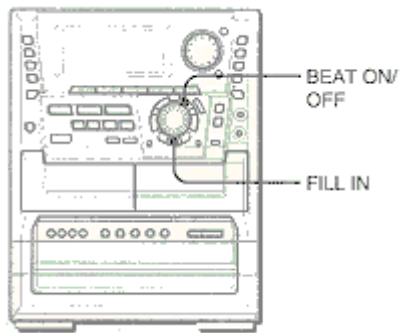
The FILL IN function is used together with the BEAT function to insert a variation of the current rhythm pattern.

The AUTO SPICE/FILL IN double function switch takes on the FILL IN function when the BEAT function is switched On.

NOTE

- The AUTO SPICE function is not available at the same time as the FILL IN function.
- The FILL IN function is not available when making a tape copy between two tape decks using SYNC DUB.
- The FILL IN function is not available for the GAME rhythm.

To use the FILL IN function



During playback with the BEAT function switched on, press **FILL IN** at the desired moment.

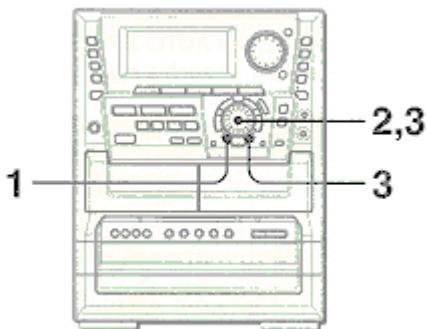


"FILL IN" is displayed and, when the current cycle of the rhythm pattern is over, you'll hear a short sound different from the rhythm pattern. This sound depends on the selected rhythm patterns.

USING THE SPICE FUNCTION

SPICE A/B function

The SPICE A/B function allows you to add percussion to the playback of the music and create your original sounds. Your sounds created with SPICE A/B can be recorded on tape if you want to.



1 Press SPICE A.

You'll hear the current sound stored at A.

2 Within 4 seconds, turn MULTI JOG to select the desired sound.

As the display changes, you'll hear the respective sound.

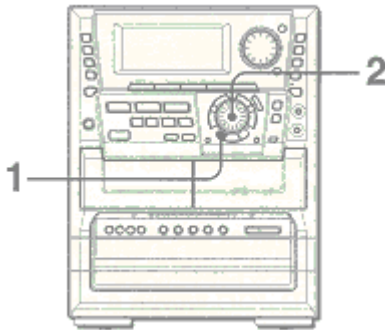
3 In a similar way, select a sound for SPICE B.

4 Play the music source and hit SPICE A or B in time with the music as in playing percussion instruments.

NOTE

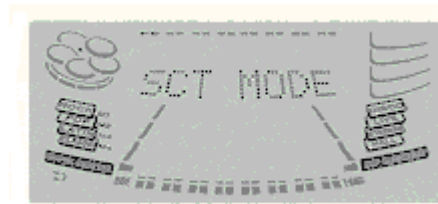
The SPICE A/B function cannot be used when making a tape copy between two tape decks using SYNC DUB.

Using the scratch mode



1 Hold down SPICE A. (Don't release the button until you complete step 2.)

"SCT MODE" is displayed.



2 Still holding down the button, turn MULTI JOG.

Depending on the direction in which you turn MULTI JOG, different scratches are produced.

The Scratch mode is disabled when you release the A button.

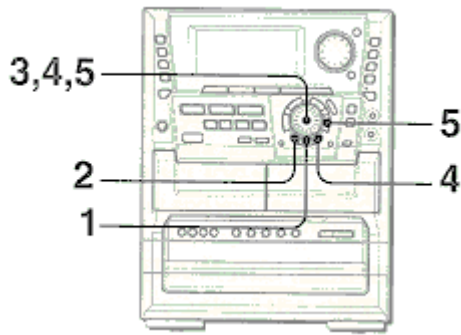
SOUND (cont) pg. 11

Using the AUTO SPICE function

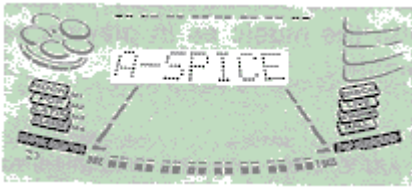
The AUTO SPICE function produces the sounds of SPICE A and B in sync with the music, the sound of A in response to low frequency signals, and the sound of B in response to high frequency signals.

NOTE

- The AUTO SPICE function cannot be used together with the BEAT function.
- Depending on the music, the AUTO SPICE function may not work the way you'd expect. In such a case, use the SPICE A/B function instead.
- The AUTO SPICE function is not available when making a tape copy between two tape decks using SYNC DUB.



1 Press AUTO SPICE to display "A-SPICE".



2 Press SPICE A.

You'll hear the sound currently stored in A its name appearing in the display.

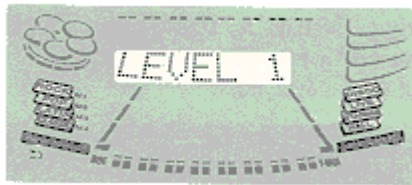
3 While the sound name is displayed, turn MULTI JOG to select the desired sound.

(Repeat step 2 if sound name disappears before turning MULTI JOG).

4 Press SPICE B and repeat step 3 to select the desired sound for B.

5 To adjust the level of the A and B sounds, press RHYTHM repeatedly until "LEVEL X" is displayed, then turn MULTI JOG within 4 seconds.

Three levels 1 2 and 3 are available.



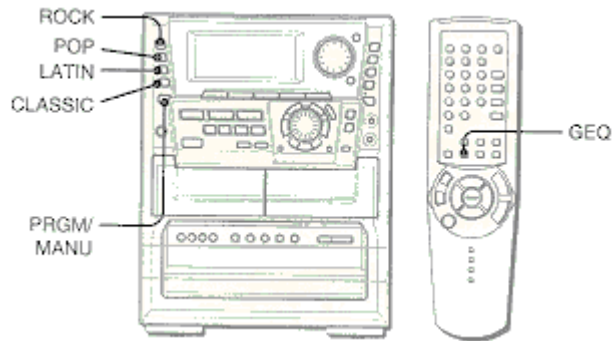
The level of A and B is adjusted simultaneously.

6 Play the music source.

The sound of SPICE A will play in sync with the bass, and the sound of SPICE B in sync with the treble.

GRAPHIC EQUALIZER (GEQ)

SELECTING THE PROGRAMMED EQUALIZATION CURVE



This unit provides four different programmed equalization curves.

ROCK: Powerful sound emphasizing treble and bass

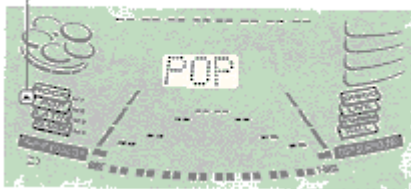
POP: More presence in the vocals and midrange

LATIN: Accented higher frequencies for latin music

CLASSIC: Enriched sound with heavy bass and fine treble

Press **PRGM/MANU** so that one of the **PRGM** indicators is selected, and then press **ROCK**, **POP**, **LATIN** or **CLASSIC**.

PRGM indicators

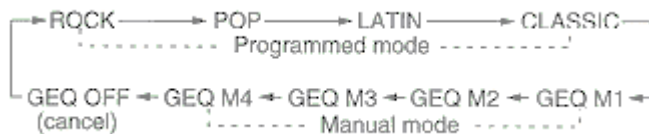


To cancel the selected mode

Press the selected button again. "GEQ OFF" is displayed.

To select the equalization curve with the remote control

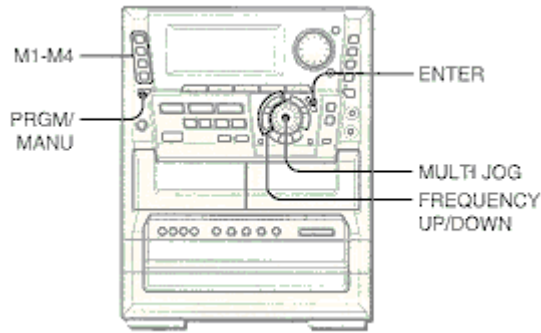
Press **GEQ** repeatedly until the desired equalization curve is displayed.



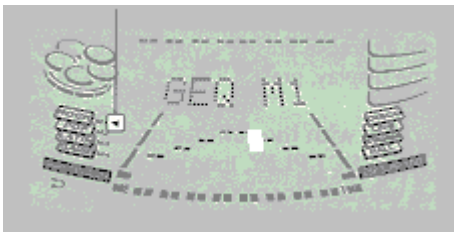
SOUND (cont.) pg. 12

SETTING NEW EQUALIZATION CURVES MANUALLY

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



1 Press FREQUENCY UP or FREQUENCY DOWN to select a frequency.
The level indicator of the selected frequency flashes.



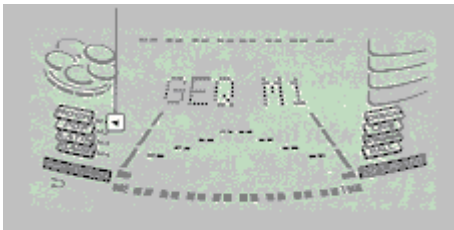
2 Turn MULTI JOG to adjust the level of the selected frequency.

3 Repeat steps 1 and 2 to make the desired equalization curve.

4 Within 4 seconds, press ENTER. "MEMORY" is displayed for 8 seconds.

5 Within 8 seconds, press one of the graphic equalizer preset buttons M1-M4.
The equalization curve is stored.

The equalization curve has been memorized to M1.



To select a manual-preset GEQ

1 Press PRGM/MANU to select the manual mode. One of the MANUAL indicators is selected.

2 Press one of the graphic equalizer preset buttons M1-M4.

To cancel the selected mode

Press the selected button again. "GEQ OFF" is displayed.

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 ◀◀ or ▶▶ on the remote control within these 2 seconds.

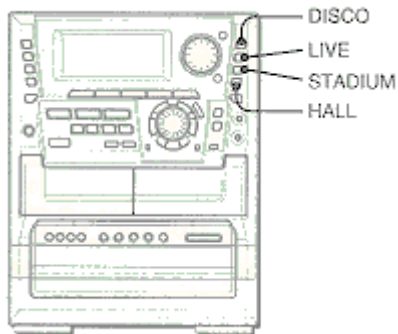
- The DOLBY PRO LOGIC (page 23) and the DOLBY DIGITAL SURROUND (page 30) surround speakers level

is also changed.

DSP SURROUND

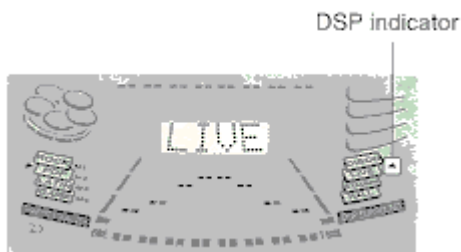
The DSP (Digital Signal Processor) SURROUND adjusts the reverb level and delay time to give a resonant surround sound during playback, allowing you to enjoy the real sound presence of different environments. This unit has been programmed with 4 different DSP SURROUND modes.

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), stadium (STADIUM) or concert hall (HALL) can be obtained.

Press DISCO, LIVE, STADIUM or HALL.



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

When the music source is monaural

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

To cancel the selected mode

Press the selected button again. "DSP OFF" is displayed.

To select the DSP mode with the remote control

Press **SURROUND** repeatedly. The DSP mode is displayed cyclically as follows:



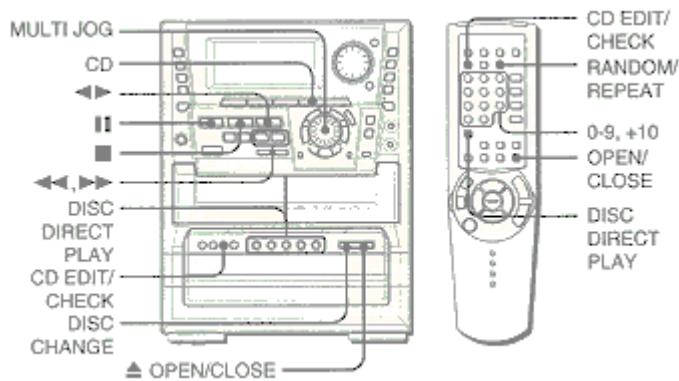
NOTE

The DSP SURROUND mode is canceled when:

- the ECHO level is changed.
- the DOLBY PRO LOGIC is turned on.
- the headphones are plugged in.
- the 5.1CH (page 30) is selected.

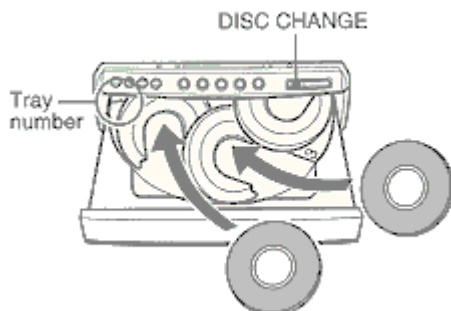
CD PLAYING pg. 13

BASIC OPERATIONS



LOADING DISCS

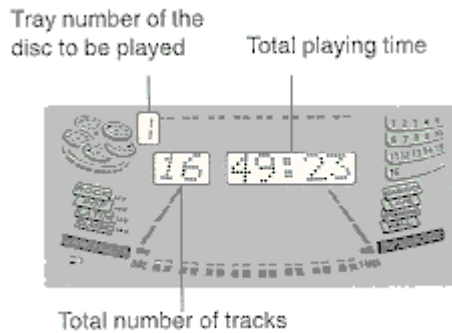
Press **CD**, then press **▲ OPEN/CLOSE** to open the disc compartment. Load disc(s) with the label side up. To load one or two discs, place the disc(s) on the tray(s) in the direction of the arrows as illustrated.



To load three to five discs, press **DISC CHANGE** to rotate the trays after placing two discs. Place the next disc on the empty tray. Each time **DISC CHANGE** is pressed, the trays rotate and one disc can be placed.

After placing the disc, press **▲ OPEN/CLOSE** to close the disc compartment.

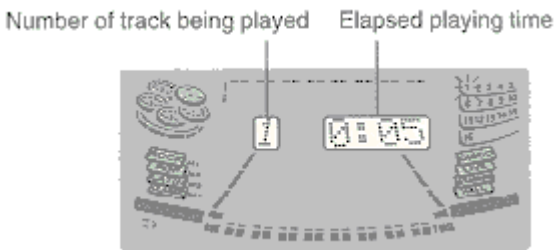
The display shows the information of the disc to be played.



PLAYING DISCS

Load discs.

To play all discs in the disc compartment, press ◀▶.
All discs are played once.



To play one disc only, press one of the DISC DIRECT PLAY 1-5.

The selected disc is played once.

To play with the remote control

Press **DISC DIRECT PLAY**, then press one of the numbered buttons 1-5 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 ◀▶ 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.

You can only remove the two discs that face you. When the disc to be removed does not face you, press **DISC CHANGE** repeatedly.

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

Press **CD EDIT/CHECK** during play. The amount of time remaining until all tracks finish playing is displayed. To

restore the playing time display, press **CD EDIT/CHECK** again.

Selecting a track with the remote control

1 Press **DISC DIRECT PLAY**, then press one of the numbered buttons **1-5** 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 play 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**.

Two discs can be replaced.


2 Remove the discs and replace with other discs.


To replace the other two discs, press **DISC CHANGE** again.

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

CD PLAYING (cont.) pg. 14

NOTE

- While the disc compartment is opened with **DISC CHANGE**, do not press buttons other than **DISC CHANGE** or  **OPEN/ CLOSE**. Doing so may cause malfunctions. In this case, reset the unit referring "To reset" on page 31.
- When loading an 8-cm (3-inch) disc, make sure to put it onto the inner circle of the tray precisely. Otherwise, the disc may be damaged or the disc compartment will not open. If it does not open, please consult your Aiwa dealer for repair.
- Do not use irregular shape CDs (example: heart-shaped, octagonal ones). It may result in malfunctions.
- 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.
- When transporting the unit, remove the discs from the trays.
- When replacing the discs during play, do not replace discs other than those facing you.

If you place a disc on the empty right inner tray, and then press  **OPEN/CLOSE**, "ERROR" is displayed and the disc compartment may not close. Remove the disc on that tray.



RANDOM/REPEAT PLAY

Use the remote control.

RANDOM play

All the tracks on the selected disc or on 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 **DISC DIRECT PLAY**, then press one of the numbered buttons **1-5** within 3 seconds to start play.

NOTE

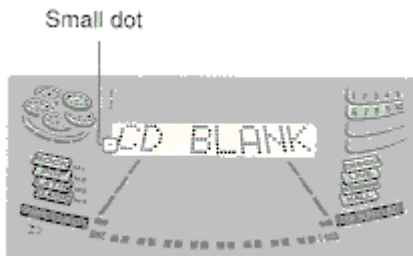
During random play it is not possible to skip to the previously played track with the .

BLANK SKIP PLAY

The silent portions between tracks recorded on a CD can be skipped during playback.

1 Press CD BLANK SKIP.

"CD BLANK SKIP ON" is displayed and a small dot will appear in the display.



2 Press to start playback.

The silent portions between tracks will be skipped, and the sound will be played back without interruption. If a track fades out (ends with the sound gradually decreasing), the fade-out portion also will be skipped.

To return to normal playback

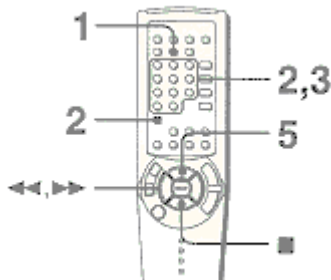
Press **CD BLANK SKIP** again so that "CD BLANK SKIP OFF" is displayed, and the dot in the display will disappear.

NOTE

- There may be a case where BLANK SKIP PLAY does not function correctly.
- BLANK SKIP PLAY is automatically canceled when performing AI EDIT RECORDING (page 21), PROGRAMMED EDIT RECORDING (page 22), or PROGRAMMED PLAY recording (page 15) or RANDOM PLAY recording (page 14).

PROGRAMMED PLAY

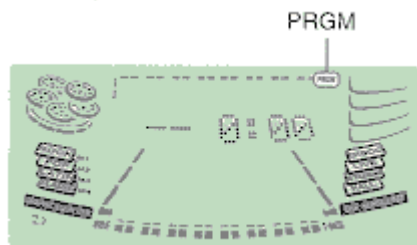
Up to 30 tracks can be programmed from any of the inserted disc.



Use the remote control.

1 Press PRGM twice in stop mode.

PRGM indicator lights up on the display.



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

2 Press DISC DIRECT PLAY, then press one of the numbered buttons 1-5 within 3 seconds to select a disc.

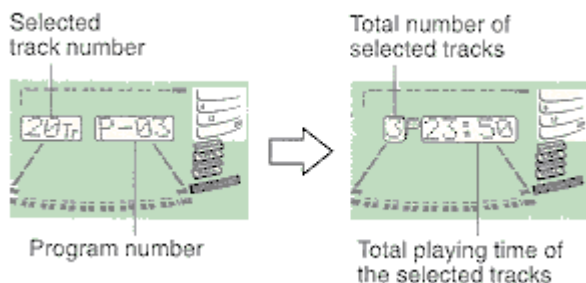
Go to the next step when the tray stops rotating.

3 Press the 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

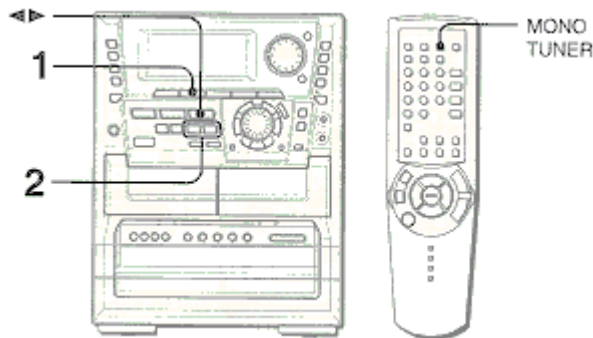
After programming the tracks, press **RANDOM/REPEAT** repeatedly until ↶ appears on the display.

NOTE

- During programmed play, you cannot perform random play, check the remaining time, and select a disc or track. "Can't USE" is displayed if you attempt to select a track or random play.
- "FULL" is displayed if you attempt to program more than 30 tracks.

RADIO RECEPTION pg. 16

MANUAL TUNING



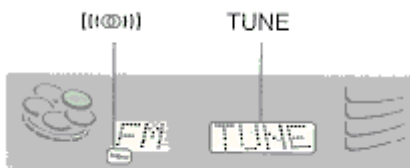
1 Press TUNER/BAND repeatedly to select the desired band, FM or AM.

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 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 the button again so that MONO disappears.

To change the AM tuning interval

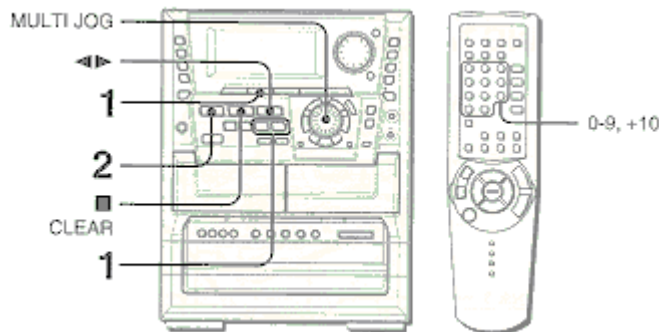
The default setting of the AM tuning interval is 10 kHz/step. If you use this unit in an area where the frequency allocation system is 9 kHz/step, change the tuning interval.

Press **POWER** while pressing ◀▶. 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.

PRESETTING STATIONS

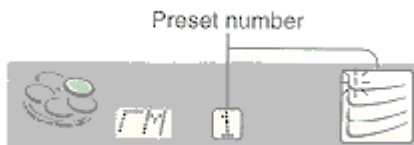


The unit can store a total of 32 preset stations. When a station is stored, a preset number is assigned to the station. Use the preset number to tune in to a preset station directly.

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

2 Press ■ SET 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 a total of 32 preset stations for all the bands have already been stored.

NOTE

"FULL" is displayed if you attempt to store more than 32 preset stations.

PRESET NUMBER TUNING

Use the remote control to select the preset number directly.

1 Press THUNDERBIRD to select a band.

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

Example:

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

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

Selecting a preset number on the main unit

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

Each time ◀▶ is pressed, the next higher number is selected.

To clear a preset station

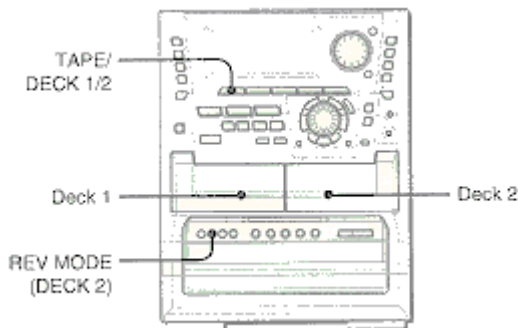
Select the preset number of the station to be cleared. Then, press ■ **CLEAR**, and press ■■ **SET** within 4 seconds.

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

TAPE PLAYBACK pg. 17

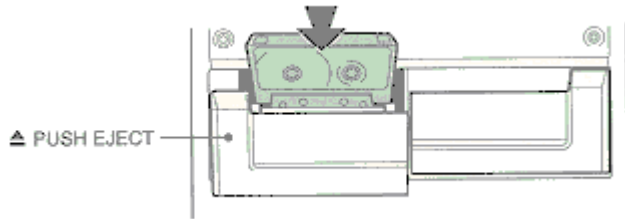
BASIC OPERATIONS

INSERTING TAPES



- On deck 1, tapes are always played back on both sides.
- On deck 2, you can select a reverse mode to play back one or both sides.
- Use Type I (normal), Type 11 (high/Cr02) or Type IV (metal) tapes for playback.

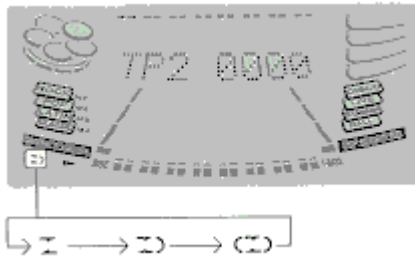
Press **TAPE/DECK 1/2**, then press ▲ **PUSH EJECT** to open the cassette holder.




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

To select a reverse mode (deck 2 only)

Each time **REV MODE(DECK 2)** is pressed, the reverse mode changes.



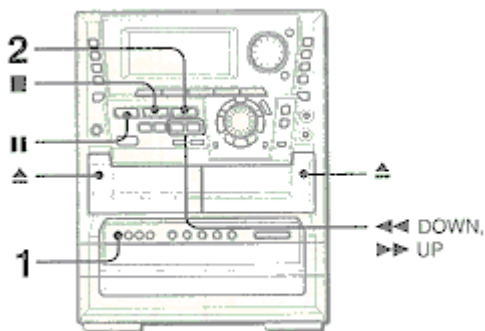
To play one side only, select .

To play from front side to reverse side once only, select .

To play both sides repeatedly, select .

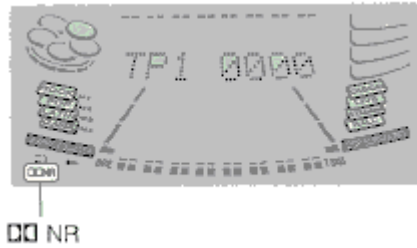
- When tapes are loaded in both decks,  on the display indicates Continuous Play.

PLAYING BACK A TAPE



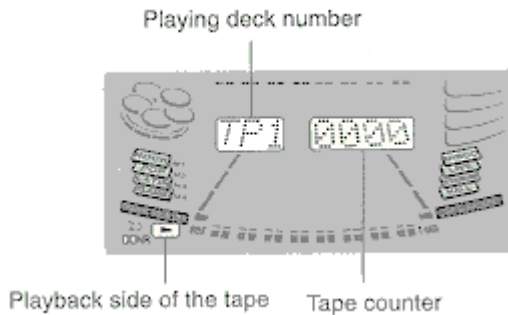
Insert a tape.

1 Press DOLBY NR to turn Dolby NR on or off to match the playback tape.



For tapes recorded with DOLBY NR, turn on **NR**.
 For tapes recorded without DOLBY NR, turn off **NR**.

2 Press **◀▶** **to start play.**



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

When tapes are loaded in both decks

Press **TAPE/DECK 1/2** 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, press **◀▶** **DIRECTION/PRESET** in play or pause mode.

To fast forward or rewind, press **◀◀** or **▶▶** in stop mode.

Then press **■** to stop the tape.

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

Press **TAPE/DECK 1/2**. 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.

MUSIC SENSOR

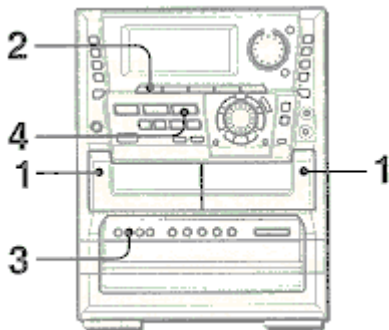
If there is a 4-second or longer blank between each track, a search for the beginning of the current or next track during playback can be done easily.

When **▶ or ◀▶ button is flashing**, press **▶▶** to move to the next track or **◀◀** to move to the beginning of the current track. When **◀ of ◀▶ button is flashing**, press **◀◀** to move to the next track, or **▶▶** to move to the beginning of the current track.

The search 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

CONTINUOUS PLAY




After playback on one deck finishes, the tape in the other deck will start to play without interruption.

1 Insert tapes into deck 1 and deck 2.

2 Press TAPE/DECK 1/2 to select the deck to be played back first.

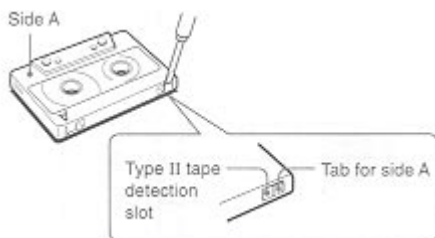
3 Press REV MODE(DECK 2) to select .

4 Press ◀▶ to start playback.

Playback continues until  is pressed.

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. (On Type II tapes, take care not to cover the Type II tape detection slot.)

• **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.



DOLBY NR system

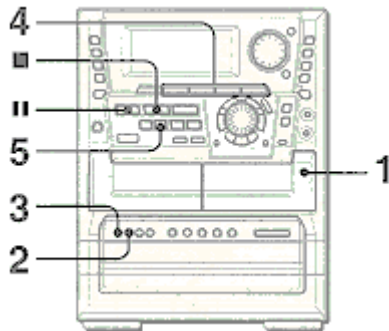
The Dolby Noise Reduction system reduces tape hiss noise.

For optimum performance when playing back a tape recorded with the DOLBY NR system, turn on the DOUBLER system.

RECORDING pg. 19

BASIC RECORDING

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

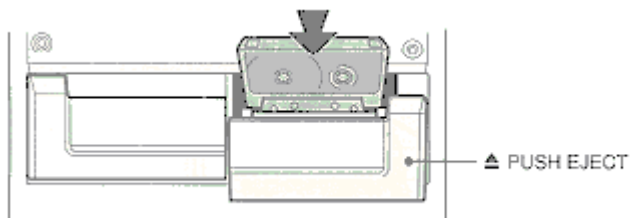


Preparation


- Set the tape to the point where recording will start.
- Use Type I (normal) and Type II (high/Cro2) tapes for recording.



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 REV MODE(DECK 2) to select the reverse mode.

To record on one side only, select .

To record on both sides, select  or .

3 Press DOLBY NR to turn Dolby NR on or off.

To record with DOLBY NR, turn on  NR.

To record without DOLBY NR, turn off  NR.

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

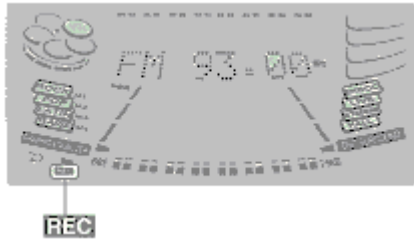
To record from a CD, press **CD** and load the disc(s).

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

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


5 Press  REC/REC MUTE to start recording.

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



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

To stop recording, press .

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

To start recording with the remote control

First press  /  REC/REC MUTE, and then press  /  within 2 seconds.

SOUND ADJUSTMENT DURING RECORDING

The output volume of the speakers or headphones may be freely varied without affecting the level of the recording. But BBE and Rhythm play function (BEAT, AUTO SPICE/FILL IN, SPICE A/B) will affect the recording.


Recording with BBE

The desired source can be recorded with the BBE function to enhance the clarity of high-frequency sound. When playing back a tape recorded with BBE, it is recommended that BBE be set to off.



INSERTING BLANK SPACES


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

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

 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  to resume recording.

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

NOTE

"Can't REC" is displayed if you attempt to record on a tape with the plastic tabs broken off.

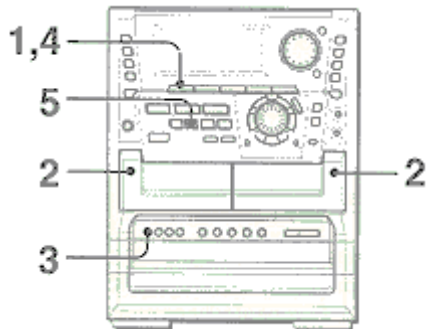
To erase a recording

Make sure the microphone(s) is(are) not connected to this unit and set the microphone volume and the echo level to OFF. (page 23). Also, check to make sure that BEAT and AUTO SPICE are switched off (page 8).


- 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 Set the reverse mode by pressing **REV MODE (DECK 2)**.
- 4 Press **REC/REC MUTE** to start the erasure.

RECORDING (cont.) **pg. 20**

DUBBING A TAPE MANUALLY



Preparation


- Set the tape to the point where recording will start.
- The reverse mode is automatically set to . Note that recording will be done on one side of the tape only.

1 Press TAPE/DECK 1/2.

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 DOLBY NR to turn off the Dolby NR.

 NR on the display goes out.


4 Press TAPE/DECK 1/2 to select deck 1.

"TP1 " is displayed.

5 Press  REC/REC MUTE to start recording.

Playing and recording start simultaneously.

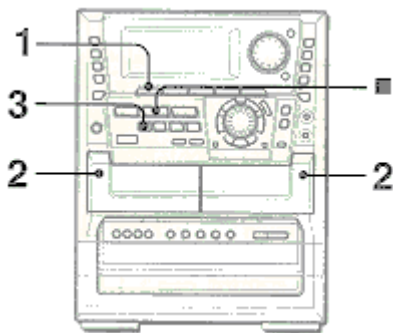
To stop dubbing

Press .

To set the Dolby NR when playing back the dubbed tape


Press **DOLBY NR** and turn Dolby NR on or off to match the original tape.

DUBBING THE WHOLE TAPE



This function allows you to make exact copies of both sides of the original tape. The reverse side of both tapes will start simultaneously as soon as the longer tape has been reversed.

NOTE

- Dubbing does not start from a point halfway in the tape.
- The reverse mode is automatically set to .
- The Dolby NR does not affect recording.

1 Press TAPE/DECK 1/2.

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 first facing out from the unit.

3 Press SYNC DUB once or twice to start recording.

- For recording at normal speed, press it once to display "NORM-DUB".
- For recording at high speed, press it twice to display "HIGH-DUB".



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

To stop dubbing

Press .

To set the Dolby NR when playing back the dubbed tape

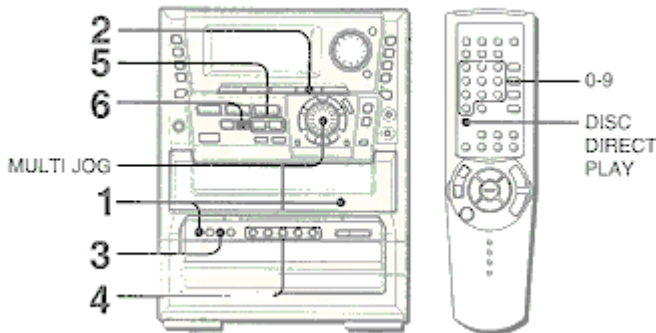
Press **DOLBY NR** and turn Dolby NR on or off to match the original tape.

NOTE

- Recording does not start, if the erasure prevention tab on either side of the tape is broken off.
- If the leader segment of the tape to be recorded on is longer than that of the original tape, recording on the reverse side may stop midway through the recording. In this case, dub each side manually following the procedure in "DUBBING A TAPE MANUALLY".

RECORDING (cont.) pg. 21

AI EDIT RECORDING



The AI edit recording 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.

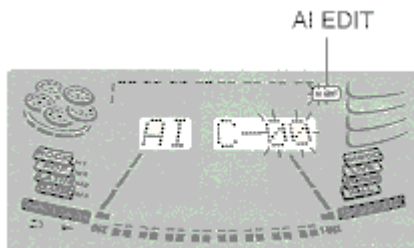
1 Insert the tape into deck 2, and press DOLBY NR to turn Dolby NR on or off.

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" lights up and "AI" flashes on the display.



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

4 Press one of the DISC DIRECT PLAY 1-5 to select a disc.

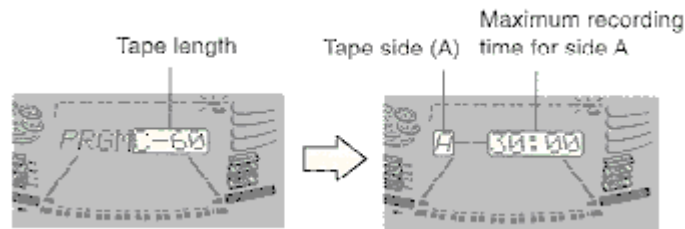
5 Press ◀◀ or ▶▶ **to designate the tape length.**

10 to 99 minutes can be specified.

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

• The numbered buttons **0-9** or **MULTI JOG** are also available to designate the tape length.

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



6 Press ● **REC/REC MUTE to start recording.**

The tape is rewound to the beginning of the front side, the lead segment is played through for 10 seconds, and recording starts. When recording on the front (side A) ends, recording on the back (side B) starts.

To stop recording

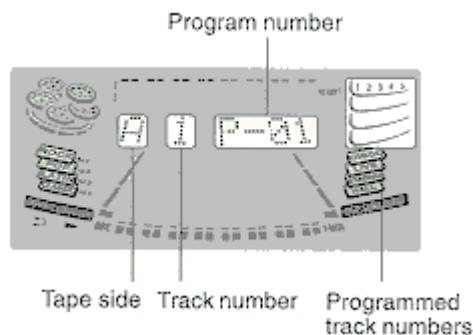
Press ■. Recording and CD play stop simultaneously.

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 or turn **MULTI JOG**.



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 one of the **DISC DIRECT PLAY 1-5** to select a disc.

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

A track which has a playing time 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

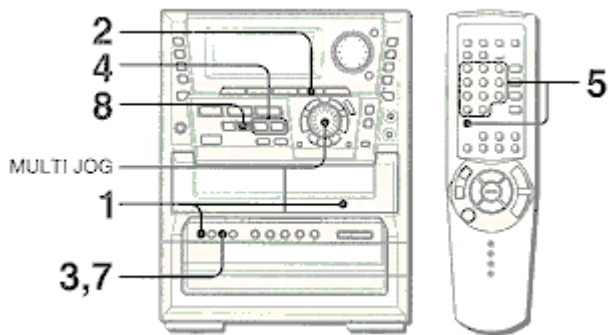
remaining on the tape (with the minus mark).

NOTE

- Recording is inhibited if the erasure prevention tab on either side of the tape is broken off.
- The AI edit recording function cannot be used with discs containing 31 tracks or more. "TR OVER" is displayed if this is attempted.

RECORDING (cont) pg. 22

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.

NOTE

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

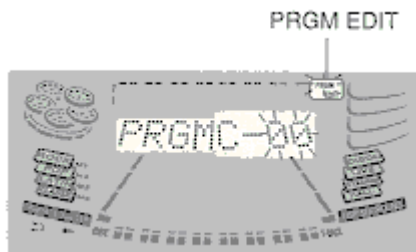
1 Insert the tape into deck 2, and press DOLBY NR to turn Dolby NR on or off.

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" lights up and "PRGM" flashes on the display.



When "AI" is displayed, press **CD EDIT/CHECK** again.

4 Press ◀◀ or ▶▶ to designate the tape length.

10 to 99 minutes can be specified.

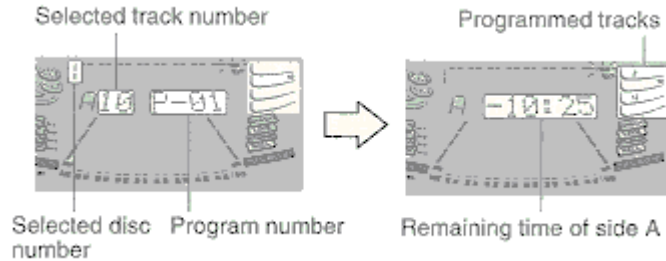
- The numbered buttons **0-9** or **MULTI JOG** are also available to designate the tape length.

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

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

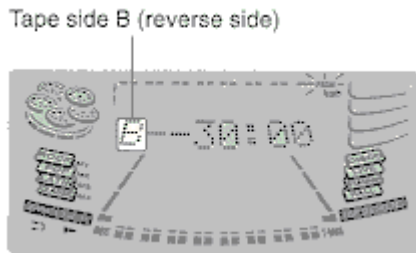
6 Repeat step 5 for the rest of the tracks for side A.

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.



8 Press ● REC/REC MUTE to start recording.

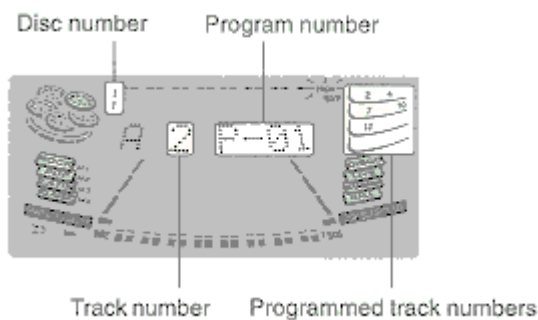
The tape is rewound to the beginning of the front side, the lead segment is played through for 10 seconds, and recording starts. When recording on the front side (A) ends, recording on the back side (B) starts.

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 or turn **MULTI JOG**.



To change the program of each side

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

To clear the edit program

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

NOTE


- Recording is inhibited if the erasure prevention tab on either side of the tape is broken off.
- Up to 30 tracks can be programmed from any of the inserted discs.
- "FULL" is displayed if you attempt to program more than 30 tracks.

DOLBY PRO LOGIC pg. 23

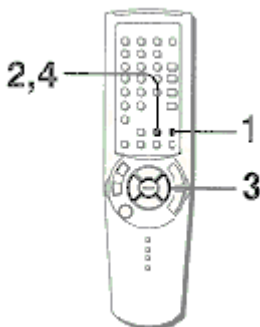
The DOLBY PRO LOGIC feature with the center and rear speakers (standard) assure full-scale home theater sound. When playing back laser discs or video software that have been recorded in Dolby Surround, astonishingly realistic sound surrounds the listener to create a new level of audio/visual entertainment.

Independent control of the five surround 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



This unit is whumped with a built-in test signal generator called a noise sequencer for easy balance adjustment of all five 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.

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.

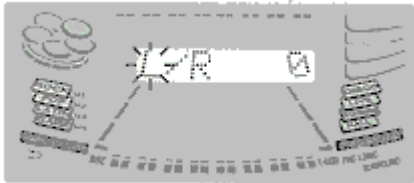
Use the remote control.

1 Press DOLBY PRO LOGIC to select NORMAL.

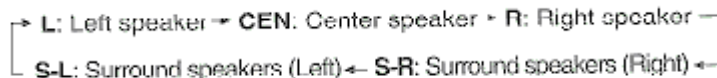
"NORMAL" is displayed.

If "PHANTOM" or "3 STEREO" is displayed, press **DOLBY PRO LOGIC** repeatedly until "NORMAL" is selected.

2 Press MANUAL SELECT and hold it down for about four seconds until "L" flashes.

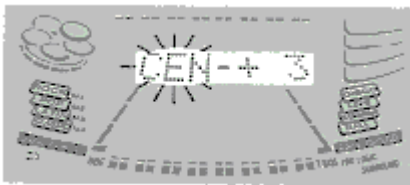


A noise signal is sent to each channel in turn in the following sequence.



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

When "CEN" or "S-R" or "S-L" is displayed, press ◀ or ▶ 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 8. At this time, the DOLBY PRO LOGIC mode should be canceled by pressing **DOLBY PRO LOGIC** until "PRO-OFF" is displayed.

4 Press MANUAL SELECT again to stop the noise signal.

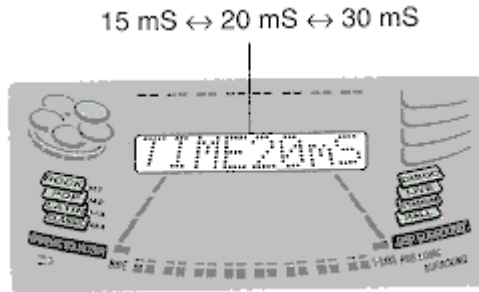
NOTE

- If the surround speakers or the center speaker level of the DOLBY PRO LOGIC is changed, that of the SURROUND system (page 12) and the DOLBY DIGITAL SURROUND (page 30) are also changed.
- While "S-L" or "S-R" is displayed, both surround speakers output the signal noise together. However, only the sound level of one surround speaker is displayed as "S-L" or "S-R" can be adjusted.
- When the sequencer outputs a noise signal, a clicking might be heard from the speakers due to the characteristics of the circuit. This is not malfunction.

To change the delay time

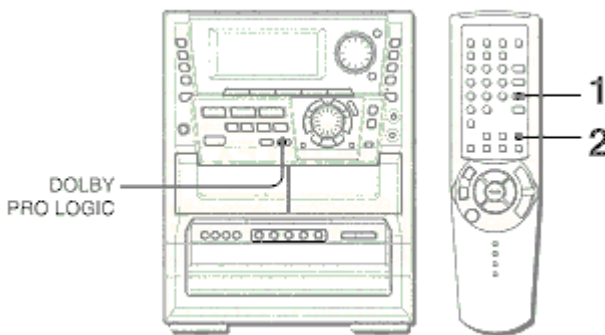
The surround speakers reproduce sounds a split second after the front speakers. The delay is initially set to 20 ms (milliseconds).

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



DOLBY PRO LOGIC (cont.) pg. 24

PLAY WITH DOLBY PRO LOGIC



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

"VIDEO" is displayed.

If "5.1 ch IN" is displayed, press VIDEO/AUX 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 "PRO-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 on the remote control repeatedly to select "CEN" (center) or "S-R" (right surround speaker) or "S-L" (left surround speaker).

2 While the "CEN" or "S-R" or "S-L" is displayed, press ◀◀ or ▶▶ 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.

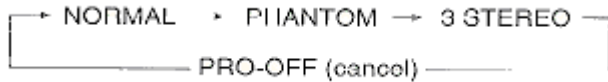
PHANTOM mode: Use this mode when no center speaker is connected. The center channel signals are output through the left and right speakers.

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

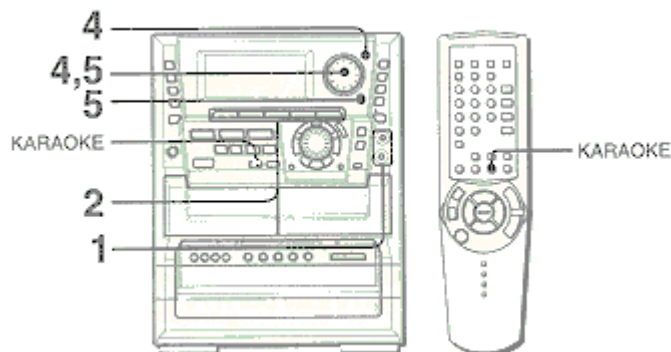
Carry out steps 2 to 4 of "ADJUSTING SPEAKER LEVEL BALANCE" (page 23).

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 12.)
- The DOLBY PRO LOGIC is automatically cancelled when:
 - the ECHO level is changed.
 - the SURROUND system or BBE is turned on.
 - the headphones are plugged in.
 - the Karaoke function is turned on.
 - the 5.1 CH (page 30) 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.

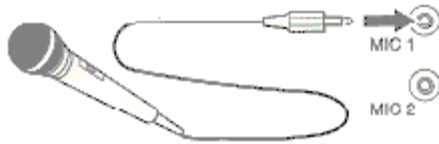
KARAOKE pg. 25

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 (Ø3.5 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.

"ECHO-L" (Long) and "ECHO-M" (Medium) 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 19).

SYNC DUB 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

- MIC and ECHO are reset to OFF automatically when the function is changed, the power is turned off, or the AC cord is disconnected.
- 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 30) is 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.

Recommended microphones

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

LOCAL FADER/MULTIPLEX FUNCTIONS

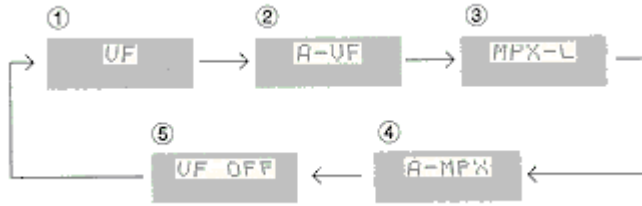
This unit can use discs or tapes as Karaoke sources.

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.



• **Vocal Fader**

The singer's voice becomes softer than the accompaniment.

, **Auto Vocal Fader**

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

f **Multiplex**

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

„ **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.

... **Cancel**

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" is displayed.

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

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

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

The muted singer's voice can be restored faster.

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.

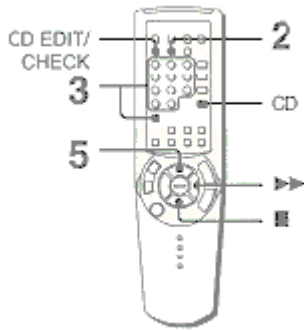
When the power is turned off, SLOW is restored.

KARAOKE (cont) pg. 26

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, Karaoke function is canceled.

KARAOKE PROGRAM

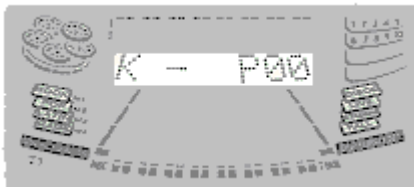


Before or during CD play, you can reserve up to 15 tracks to be played after the current track. Each reservation is cleared when it finishes playing.

Use the remote control.

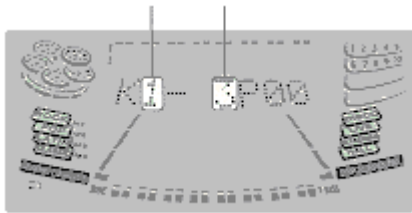
1 Press CD and load the discs.

2 Press PRGM once.



3 Press DISC DIRECT PLAY, then press one of the numbered buttons 1-5 within 3 seconds to select a disc. Then press the numbered buttons 0-9 and +10 to program a track.

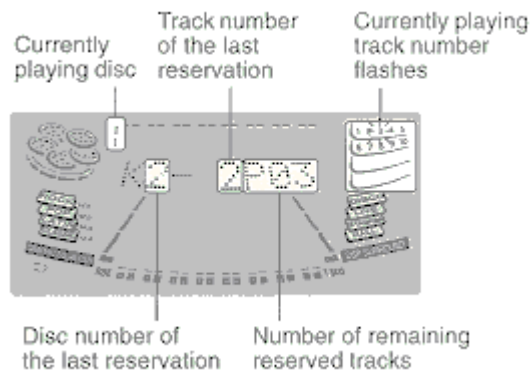
Reserved disc number Reserved track number



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 **■**.

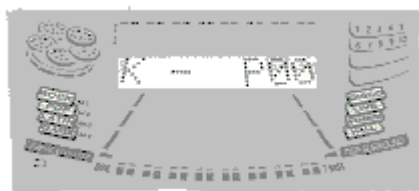
When **◀▶** is pressed, the play starts from the last track again.

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 program. The display returns to that of CD play.

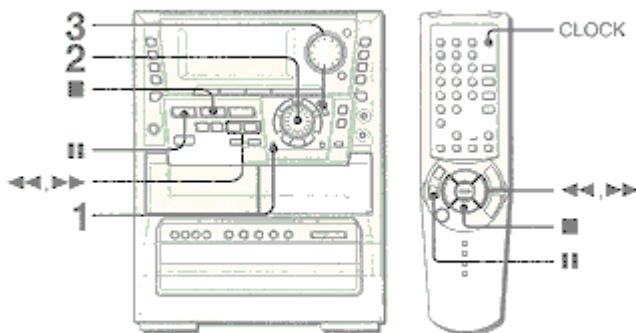
NOTE

- 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 **◀▶** start play with the next reserved track.
- When **PRGM** is pressed repeatedly in step 2, **PRGM** is displayed and the unit enters CD programmed play mode (page 15).

To cancel programmed play, press **■ CLEAR**.

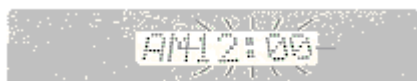
CLOCK AND TIMER pg. 27

SETTING THE CLOCK



The clock is displayed. (The ":" between the hours and minutes flashes.) When the power cord is plugged into an AC outlet for the first time after purchase or when the clock setting is canceled due to a power failure, the entire clock display flashes.

1 Press CLOCK.



2 Within 4 seconds, turn MULTI JOG to designate the hour and the minute.

Turning **MULTI JOG** changes both the hour and the minute. ◀◀ or ▶▶ is also available instead of **MULTI JOG**. Holding these buttons down will vary the time rapidly.

3 Press ENTER or ■■.

The clock starts from 00 second.

To restore an original clock setting

Press **CLOCK** before completing step 3 to restore the previous time setting. This cancels any new setting.

To view the clock when another display is in the display

Press **CLOCK**. The time is displayed for 4 seconds and then the original display reappears. However, the clock cannot be displayed during recording.

To switch to the 24-hour standard

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

If the clock display flashes

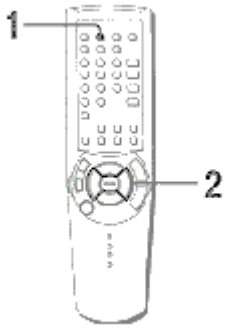
This caused by a power interruption. The current time needs to be reset.

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

NOTE

If the power-economizing mode (page 6) is on, all the display lights turn off when the power is turned off. To view the clock, press **CLOCK** so that the time is displayed for 4 seconds.

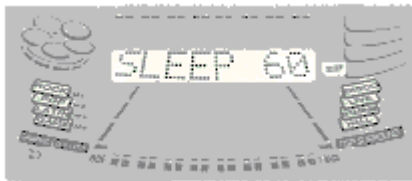
SETTING THE SLEEP TIMER



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

Use the remote control.

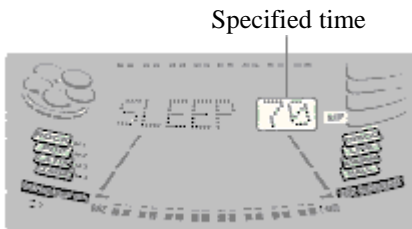
1 Press SLEEP.



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.

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

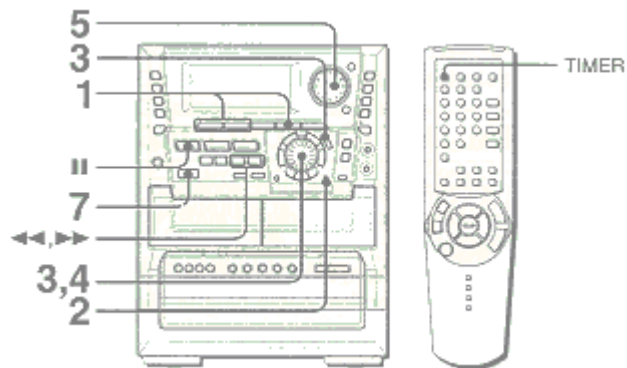


To check the time remaining until the power is turned off

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.



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

Preparation

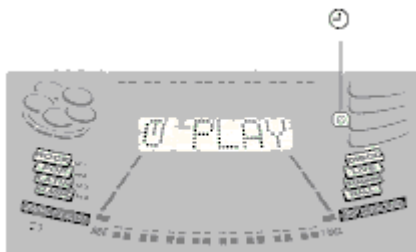
Make sure the clock is set correctly.

1 Press one of the function buttons to select a source.

- If **TUNER/BAND** is pressed, the band cannot be selected in this step.

2 Press **TIMER** repeatedly until appears on the display.

Time and audio source name flash alternately.



3 Within 6 seconds, turn **MULTI JOG** to designate the timer-on time, then press **ENTER** or .



Turning **MULTI JOG** changes both the hour and the minute.

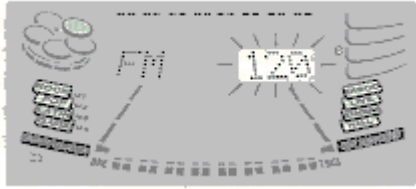
 or  is also available instead of **MULTI JOG**. Holding these buttons down will vary the time rapidly.




4 Within 4 seconds, turn **MULTI JOG** to select the duration for the timer-activated period.

The duration can be set between 5 and 240 minutes in 5-minute steps.

 or  is also available instead of **MULTI JOG**.



The duration will be automatically set after 4 seconds. It will also be set if **ENTER** or  is pressed within 4 seconds after step 4.

5 Adjust the volume.

The source sound will play at the volume level set in this step when the power is turned on by the timer. If the volume level is set to 21 or higher, however, it will automatically be set to 20 when the power is turned on.

6 Prepare the source.

To listen to a CD, load the disc 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.

7 Press **POWER** to turn off the power.

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

NOTE

You can change the source that was selected in step 1 by pressing one of the function buttons before pressing **ENTER** or  in step 3.

To check the timer setting

Press **TIMER**.


The selected source, the timer-on time, and the duration for the timer-activated period will be displayed for 6 seconds.


To change any of the previous setting

Carry out from step 1.

However, if you do not change the timer-on time, in step 3 just press **ENTER** twice and continue from step 4.

To cancel timer standby mode temporarily

Press **TIMER** repeatedly so that  disappears.

To restore the timer standby mode, press again to display .

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 and 6.

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.

TIMER RECORDING

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

Press either **TUNER/BAND** or **VIDEO/AUX** to select a source, then **press TIMER** repeatedly until  REC

appears on the display.

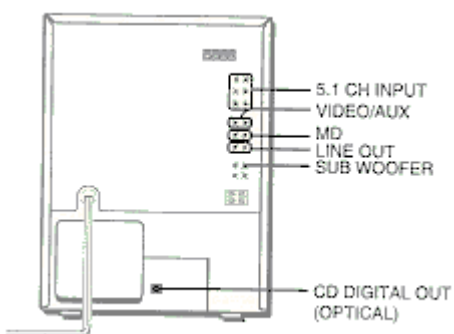
Within 6 seconds, carry out the steps of "SETTING THE TIMER" from step 3 and insert the tape to be recorded into deck 2 after step 6.

NOTE

- When the power-economizing mode (page 6) has been turned on, the timer recording volume level will be 0 (minimum level).
- You cannot use the timer function to record from a CD, tape or MD.

OTHER CONNECTIONS pg. 29

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 (turntables, LD players, VCRs, TV, MD players etc.).

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

- When MD player is connected to these jacks, no sound will be output from the **LINE OUT** jacks.

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 to **LINE OUT R** jack and the white plug to **LINE OUT L** jack.

NOTE

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

SUB WOOFER JACK

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

NOTE

SUB WOOFER output jack is designed to reproduce the DOLBY DIGITAL SURROUND sound.

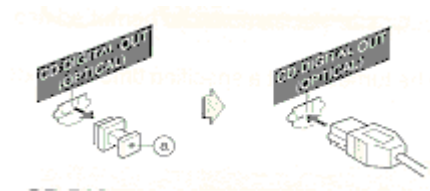
5.1 CH INPUT JACKS

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 "PLAYER" (page 30).

CD DIGITAL OUT (OPTICAL) JACK

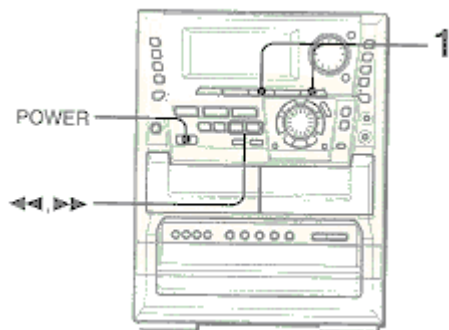
This unit can output CD digital sound signals through this jack. Use an optical cable to connect digital audio equipment (DAT deck, MD recorder, etc.).

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



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

LISTENING TO EXTERNAL SOURCES



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

1 Press VIDEO/AUX or MD.

To play the equipment connected to **VIDEO/AUX**, press **VIDEO/AUX**. "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** is pressed, "VIDEO" is displayed initially. It can be changed to "AUX" or "TV".

With the power on, press **POWER** while pressing **VIDEO/AUX**. When the "5.1ch IN" is displayed, press **VIDEO/AUX** again to see the changed source name.

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** 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 cannot be adjusted.

OTHER CONNECTIONS (cont) pg. 30

CONNECTING A DVD PLAYER

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

Connect a DVD player with 5.1 CH 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)
5.1 CH OUTPUT SURROUND (L, R), etc.	5.1 CH SURROUND (L, R)
5.1 CH OUTPUT CENTER, etc.	5.1 CH CENTER
5.1 CH OUTPUT SUB WOOFER, etc.	5.1 CH SUB WOOFER
LINE OUT (L, R), etc	VIDEO/AUX
	(See NOTE)

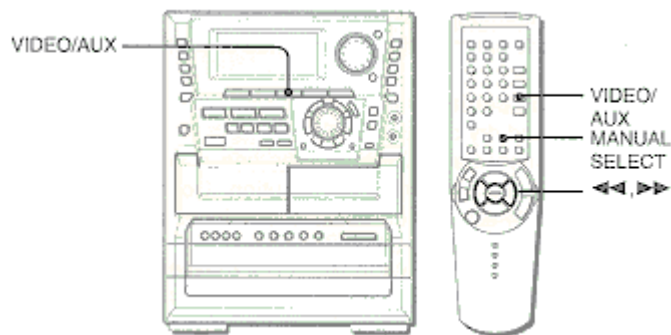
[Click here for diagram.](#)

NOTE

• If the DVD is not connected to **VIDEO/AUX** jack of this unit, the sound from the connected DVD player cannot be recorded. To remove this limitation, connect the **LINE OUT** jacks of the DVD player to **VIDEO/AUX** jacks of this unit besides connecting to **5.1 CH INPUT** jacks. The signals through **VIDEO/AUX** jacks enable 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 the **5.1 CH INPUT** jacks of this unit, you can listen to **DOLBY DIGITAL SURROUND** sound, which enables you to enjoy theater-quality sound in your home.

1 Press VIDEO/AUX repeatedly until "5.1ch IN" is displayed.

DOLBY DIGITAL SURROUND is turned on.

2 Press ◀◀ or ▶▶ to adjust the input level while "5.1ch IN" is displayed.

The input level can be selected from **MIN (0)** to **MAX (7)**.

3 Start playing DOLBY DIGITAL SURROUND sound on the DVD player.

NOTE

- The **DOLBY PRO LOGIC**, **BBE** and the **DSP SURROUND** system, **Karaoke** function, **MIC** and **ECHO** are automatically canceled when the **5.1 CH** is selected.
- Make sure the software played back with the connected equipment support the **DOLBY DIGITAL SURROUND**.
- The function is changed from the **5.1 CH** to the **VIDEO** when:
 - the headphones are plugged in.
 - the **DSP SURROUND** system, the **DOLBY PRO LOGIC** or the **Karaoke** function is turned on.
 - the **MIC** or **ECHO** level is changed.
- "Can't USE" is displayed if you attempt to activate the **Rhythm Play** function when the **5.1 CH** is selected.

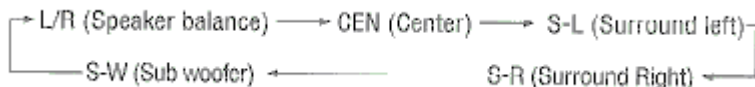
To adjust the sound levels of the speakers in DOLBY DIGITAL SURROUND

Use the remote control.

1 Press VIDEO/AUX repeatedly until "5.1ch IN" is displayed.

2 Press MANUAL SELECT repeatedly.

Speaker names appear in turn as follows:



3 Press ◀◀ or ▶▶ to adjust the sound level while "CEN", "S-L", "S-R" or "S-W" is displayed.

Each level can be adjusted between **-8dB** and **+7dB**.

4 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 **DSP SURROUND** system (page 12) and the **DOLBY PRO LOGIC** (page 23) are 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

When the tape heads are dirty;

- high frequency sounds is not emitted
- the sound is not adequately high
- the sound is off-balance
- the tape cannot be erased
- the tape cannot be recorded on

After every 10 hours of use, clean tape heads with a head cleaning cassette.

Use separately sold dry-type or wet-type cleaning cassette.

Refer to the instructions of the cleaning cassette for details.

To demagnetize the heads

The tape heads may become magnetized after long-term use.

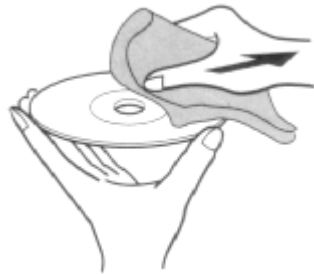
This may narrow the output range of recorded tapes and increase noise.

After every 20 to 30 hours use, demagnetize the tape heads with a separately sold demagnetizing cassette.

Refer to the instructions of the demagnetizing cassette for details.

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

To reset

If an unusual condition occurs in the display window, the cassette decks or CD player, 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

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? (è page 3 and 4)
- There may be a short circuit in the speaker terminals.
è 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? (è page 26)

An erroneous display or a malfunction occurs.

è Reset the unit as stated below.

The power is not turn on.

è Disconnect the AC cord, and connect it again in a few seconds.

TUNER SECTION

There is constant, wave-like static.

- Is the antenna connected properly? (è page 4)
- Is the signal weak?

è Connect an outdoor antenna.

The reception contains noise interference or the sound is distorted.

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

CASSETTE DECK SECTION

The tape does not run.

- Is deck 2 in pause mode? (è page 17)

The sound is off-balance or not adequately high.

- Is the playback head dirty? (è page 30)

Recording is not possible.

- Is the erasure prevention tab on the tape broken off? (è page 18)
- Is the recording head dirty? (è page 30)

Erasure is not possible.

- Is the erasure head dirty? (è page 30)
- Is a metal tape being used?

High frequency sound is not emitted.

- Is a tape recorded without Dolby NR played back with the Dolby NR system operating? (è page 17)
- Is the recording/playback head dirty? (è page 30)

CD PLAYER SECTION

The CD player does not play.

- Is the disc correctly inserted? (è page 13)
 - Is the disc dirty? (è page 30)
 - Is the lens affected by condensation?
- è Wait approximately one hour and try again.

GENERAL (cont) pg. 32

SPECIFICATIONS

Main unit CX-NMTD9

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 µV/m
Antenna. Loop antenna

Amplifier section

Power output. **Front**
. 155 W + 155 W (50 Hz - 20 kHz,
. THD less than 1%, 6 ohms)
. **Rear (Surround)**
. 33W+33W (50 Hz -20 kHz,
. THD less than 1%, 8 ohms)
. **Center**
. 34 W (50 Hz - 20 kHz, THD less
. than 1%, 8 ohms)
Total harmonic distortion 0.1 % (100 W, 1 kHz, 6 ohms, DIN
. AUDIO/Front)
Inputs VIDEO/AUX: 300 mV (adjustable)
. MD: 300 mV (adjustable)
. MIC 1, MIC 2: 1.0 mV (10 kohms)
. 5.1CH INPUT
. FRONT (L,R): 240 mV
. SURROUND (L,R): 240 mV
. CENTER: 600 mV
. SUB WOOFER: 240 mV
Outputs LINE OUT: 150 mV
. SUB WOOFER: 1 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..... CrO2 tape: 50 Hz - 16000 Hz
..... Normal tape: 50 Hz - 15000 HZ
Signal-to-noise ratio..... 60 dB (Dolby B NR ON, CrO2 tape
..... peak level)
Recording system..... AC bias
Heads..... Deck 1: Playback head x 1
..... Deck 2: Recording/playback head
..... x 1, erase head x 1

Compact disc player section

Laser..... Semiconductor laser ($\lambda = 780$ nm)
D-A converter..... 1 bit dual
Signal-to-noise ratio..... 83 dB (11 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..... 220 W
Dimensions of main unit..... 300 x 383.5 x 380 mm
(W x H x D)..... (11 7/8 x 15 1/8 x 15 in.)
Weight of main unit..... 13 kg (28 lbs 11 oz)

Standby power consumption

If the power-economizing mode is OFF: 36W
If the power-economizing mode is ON: 1.5W

Speaker system SX-ND8

Cabinet type..... 3 way, bass reflex (magnetic
..... shielded type)
Speakers..... Woofer:
..... 160 mm (6 3/8 in.) cone type
..... Tweeter:
..... 60 mm (2 3/8 in.) cone type
..... Super tweeter:
..... 20 mm (13/16 in.) ceramic type
Impedance..... 6 ohms
Output sound pressure level..... 87 dB/W/m
Dimensions (W x H x D)..... 250 x 383 x 285 mm
..... (9 7/8 x 15 1/8 x 11 1/4 in.)
Weight..... 5.8 kg (12 lbs.147 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.

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DOLBY NR/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.

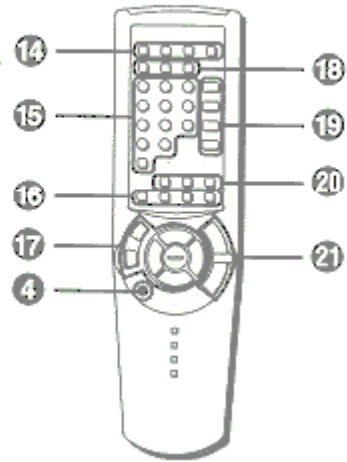
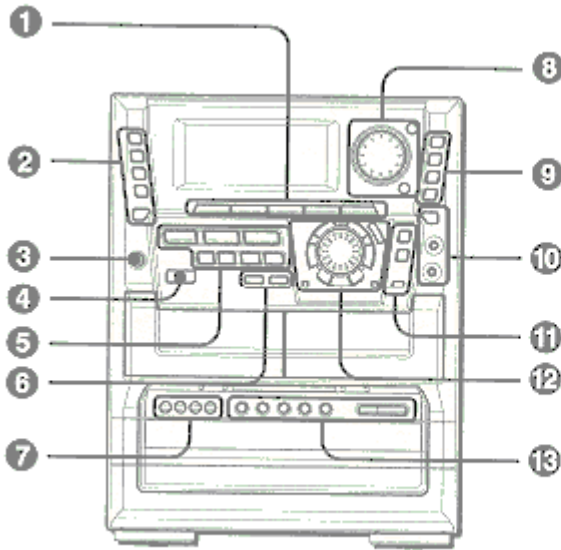
Consult the dealer or an experienced radio/TV technician for help.

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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