

# ***Mini Hi-Fi Component System***

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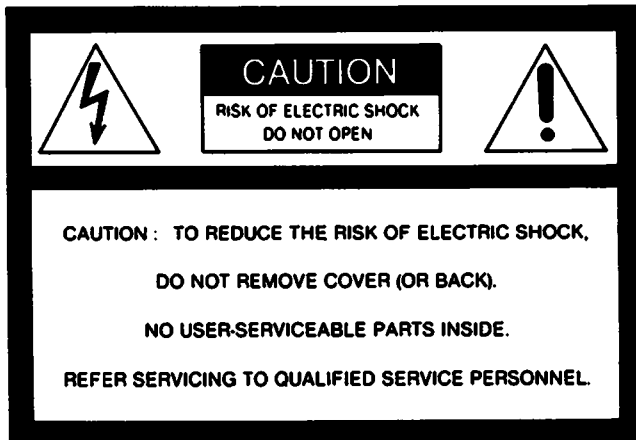
Operating Instructions



***MHC-300***

# WARNING

**To prevent fire or shock hazard, do not expose the unit to rain or moisture.**



This symbol 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.



This symbol 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

The model and serial numbers are located at the rear of the unit. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. HCD-H300      Serial No. \_\_\_\_\_

Model No. SS-H1600L      Serial No. \_\_\_\_\_

## INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause 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 the receiving antenna
- Relocate the equipment with respect to the receiver
- Move the equipment away from the receiver
- Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

## CAUTION

The use of optical instruments with this product will increase eye hazard.

### Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

# Table of Contents

## Getting Started

How to use this manual .....	3
Overview .....	3
Precautions .....	3
Preparations .....	4
Connections .....	5
Clock setting .....	7

## Using Your Stereo

Audio adjustment .....	8
CD playing .....	9
Radio .....	17
Using the graphic equalizer .....	20
Editing the CD for recording .....	24
Timer-activated operation .....	27
Storing the volume setting for timer-activated operation .....	29
Sleep timer operation .....	30
Microphone mixing .....	31

## General

Maintenance .....	32
Specifications .....	33
Troubleshooting guide .....	34
Parts identification .....	35

# How to Use this Manual

## How this manual is composed

Please read the instructions in this manual referring to the illustrations.

- The letters in the illustrations correspond to the letters in the text:  
e.g. Speaker Cord Connection **A**
- The step numbers in the illustrations correspond to the step numbers in the text.
- Use the page numbers in "Parts Identification" at the end of this manual as an index to find how to use the buttons and controls.

# Overview

## Tuner section

You can store up to 30 stations; 20 stations for FM and 10 stations for AM.

## Amplifier section

- DBFB (Dynamic Bass Feedback) system reinforces bass sound.
- You can easily adjust the music to your taste by selecting from 5 factory-preset graphic equalizer settings.
- You can store up to 5 individual settings of graphic equalizer.
- You can select directly the desired program source just by pressing the operation button (BAND or +/- to select the tuner and **D** to select the CD player) on the program source equipment. (Automatic function)

## CD player section

- You can enjoy listening in various playing modes.
- Edit functions allow you to program selections automatically to fit in a desired duration.

## About the remote commander

You can directly choose the selections, the preset stations and the graphic equalizer settings using the numeric buttons on the remote commander.

# Precautions

## On safety

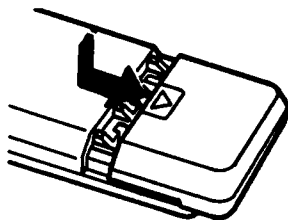
- As the laser beam used in this unit is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Unplug the system from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- Should any solid object or liquid fall into the component, unplug the system and have the component checked by qualified personnel before operating it any further.
- AC power cord must be changed only at the qualified service shop.

For detailed safety precautions, see the "IMPORTANT SAFEGUARDS" leaflet.

If you have any question or problem concerning your stereo system, please consult your nearest Sony dealer.

# Preparations

**A**

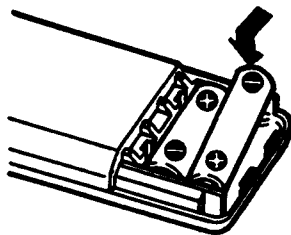


## Installation

Place the stereo system in a location with adequate ventilation to prevent internal heat build-up in the system.

### On moisture condensation in the CD player section

If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the unit. Should this occur, the CD player will not operate. In this case, remove the disc and leave the system turned on for about an hour until the moisture evaporates.



## Battery Installation **A**

Install two size AA (R6) batteries in the supplied remote commander with correct polarity for remote control operation.

### Battery life

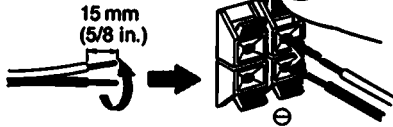
About half a year of normal operation can be expected when using the Sony SUM-3 (NS) batteries. When the batteries are exhausted, the commander cannot operate the stereo system. When this happens, replace both batteries with new ones.

### To avoid battery leakage

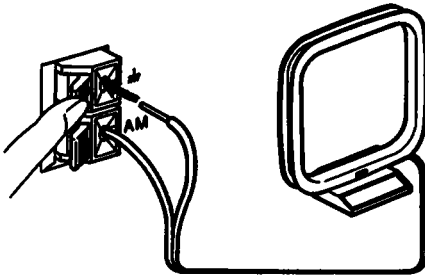
If the commander is not to be used for a long time, remove the batteries to avoid damage caused by battery leakage and corrosion.

# Connections

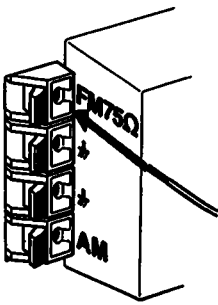
**A**



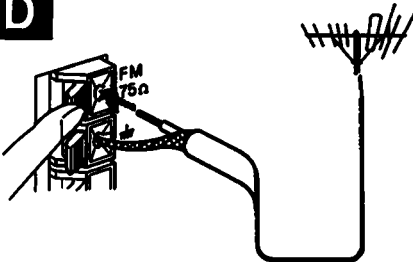
**B**



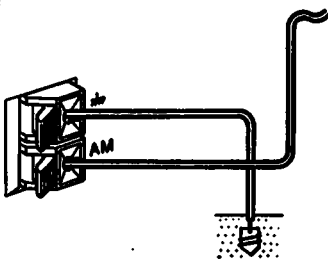
**C**



**D**



**E**



## Notes on connection

- Connect the AC power cord last.
- Cord plugs and jacks are color coded. Red plugs and jacks are for the right channel (R) and white ones for the left channel (L).

## Speaker Cord Connection **A**

- 1 Strip 15 mm (5/8 inches) of the speaker cord coating from the end of the cord.
- 2 Connect the right speaker to R, with the red cord to + and the black cord to -. Connect the left speaker to L, with the red cord to + and the black cord to -.

## AM Antenna Connection **B**

Connect the supplied loop antenna to the AM and 75Ω terminals.

## FM Wire Antenna Connection **C**

Connect the supplied FM wire antenna to the FM terminal and extend horizontally.

## For Better FM Reception **D**

Connect the outdoor FM antenna to the FM 75Ω and 75Ω terminals, using 75-ohm coaxial cable.

## For Better AM Reception **E**

Use the 6- to 15-meter (20- to 50-feet) insulated wire for connecting the terminal. Connect the 75Ω terminal to a good ground.

## Important

When you use an external antenna, be sure to ground it against lightning. Never connect the ground wire to a gas pipe. Doing so is extremely dangerous.

## Power Connection

Connect the supplied AC power cord to AC IN and the other end to a wall outlet.

## Changing the AM tuning interval

The AM tuning interval is preset at the factory to 10 kHz. If you use the system where the frequency allocation system is different from the preset interval, change the interval as follows:

- 1 Turn on the power.
  - 2 Tune in any AM station.
  - 3 Turn off the power.
  - 4 Turn the power back on while pressing the MEMORY/NEXT button.
- To reset the interval, follow the same procedure.

## Important

When the interval is changed, stored stations will be erased from the memory.

# Connections

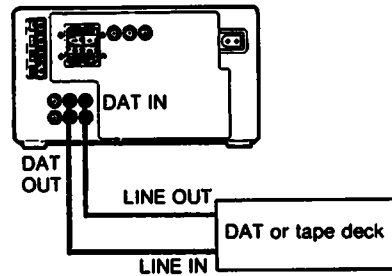
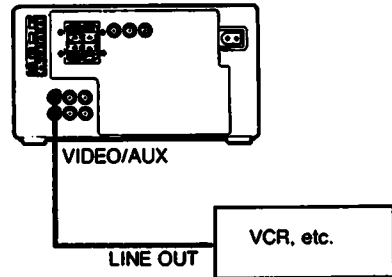
## Adding Other Components to Your System

### VCR **A**

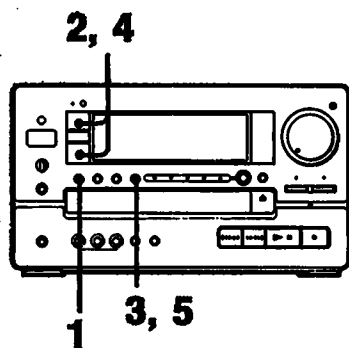
You can connect a VCR, etc. to the VIDEO/AUX jacks. To listen to the connected equipment, press the FUNCTION button on the front panel until "VIDEO/AUX" appears on the display.

### DAT or tape deck **B**

You can connect a DAT system or a tape deck to the DAT jacks. To listen to the connected equipment, press the FUNCTION button on the front panel until "DAT/TAPE" appears on the display.



# Clock Setting



## Setting the Clock

Example: Set to 9:25 in the morning.

- 1 Press **CLOCK SET**.
- 2 Set the hour with **+** or **-** button.
- 3 Press **MEMORY/NEXT**.
- 4 Set the minute with **+** or **-** button.
- 5 Press **MEMORY/NEXT**.  
The clock starts operating.

## Information on the time

The time is shown in the following way:

AM 12:00 = midnight

PM 12:00 = noon

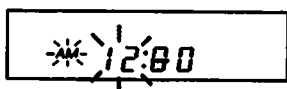
When a power interruption occurs

"AM 12:00" will flash on the display, and the clock, timer, and Wake Up Volume settings will be erased. In this case, reset them.

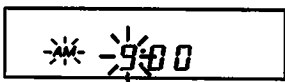
To change the frequency display to the time display

Press **CLOCK DISPLAY** on the remote commander. The time is displayed for about 4 seconds, then the time display changes into the frequency display.

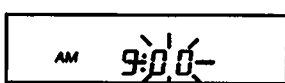
1



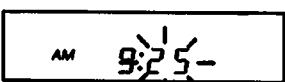
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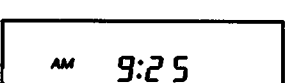
3



4



5



## Audio Adjustment

### Volume Adjustment **A**

Turn VOLUME clockwise to increase the sound level, or counterclockwise to decrease it.

### Sound Quality Adjustment

#### To reinforce bass **B**

Press DBFB\*.

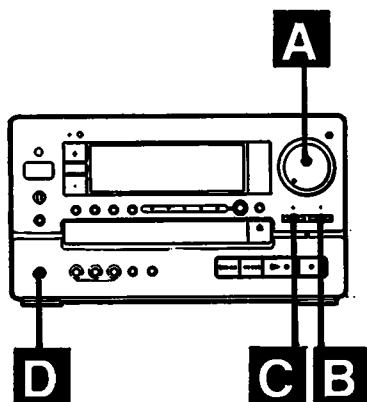
The lower the sound level is, the more the bass is emphasized.

#### To activate surround effect for stereo sound **C**

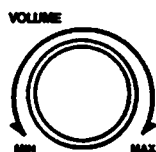
Press S-SUR\*\* during a stereo sound reproduction. This creates the atmosphere of a movie theater or concert hall. This function is not effective for a monaural sound.

#### For personal listening **D**

Connect headphones to HEADPHONES. No sound comes from the speakers.



**A**



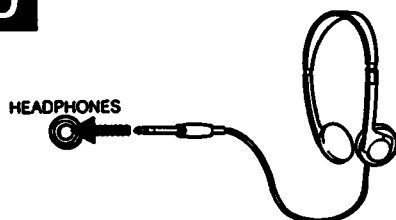
**B**



**C**



**D**



\* DBFB = Dynamic Bass Feedback  
\*\* S-SUR = Simulated Surround



# CD Playing

## Playing the Entire Disc

**1 Press  $\Delta$  OPEN/CLOSE to open the tray.**  
Place the disc with the printed side up.

**2 Press  $\triangleright \parallel$ .**  
The tray closes and play starts.

The display shows **a** the current track number, **b** the current INDEX number (of the track), **c** elapsed playing time of the track and **d** track numbers.

### Caution on adjusting volume

Do not turn up the volume while listening to a portion with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level portion is played.

### To stop play

Press  $\blacksquare$

### To stop for a moment during play

Press  $\triangleright \parallel$  (  $\parallel$  on the remote commander). To resume play, press it again.

### To stop play and open the tray

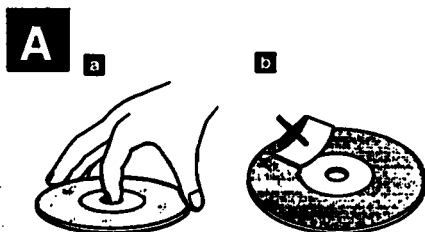
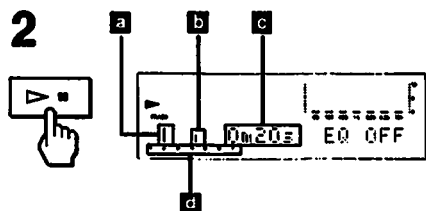
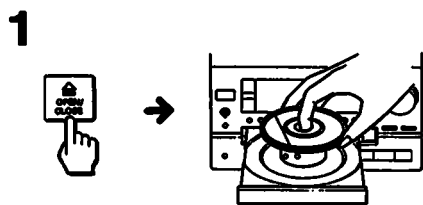
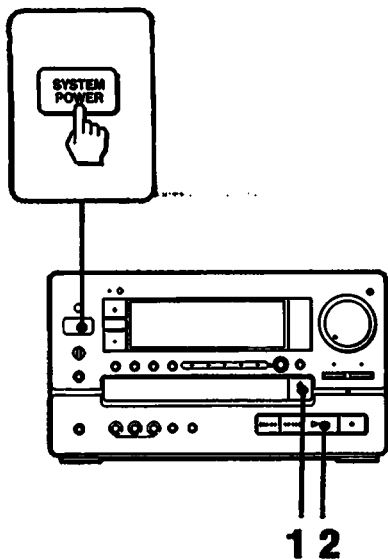
Press  $\Delta$  OPEN/CLOSE.

### Notes on handling discs **A**

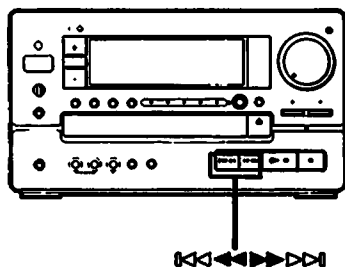
- To keep the disc clean, handle the disc by its edge. Do not touch the surface. **a**
- Do not stick paper or tape on the disc. **b**
- Do not expose the disc to direct sunlight or heat sources such as hot air duct, nor leave it in a car parked in direct sunlight as there can be a considerable rise in the temperature.
- After playing, store the disc in its case.

### To play an 8 cm (3-inch) CD

Place it on the inner circle of the tray. If the disc is provided with an adaptor, first remove it. Do not put a normal CD (12 cm/5-inch) on top of 8 cm CD.



# CD Playing



## Locating a Particular Selection — Automatic Music Sensor (AMS)

The AMS locates the beginning of a selection.

**To locate the beginning of the current or preceding selection **A****

Press **[<<<<]** (**[<<<]** on the remote commander) as many times as required.

**To locate the beginning of a succeeding selection **B****

Press **[>>>>]** (**[>>>]** on the remote commander) as many times as required.

**To locate a selection directly**  
(Remote commander only)

- 1 Set the TUNER/EQ/CD selector to CD.
- 2 Press the numeric button for the selection.

If the selection number is greater than 10

Use the >10 and 1 to 10 buttons. "10" functions as the figure "0"

e.g. To play from selection number 22, press >10, 2, 2.

To play from selection number 30, press >10, 3, 10.

## Locating a Particular Point in a Selection

You can locate any particular point in the selection. This function works during play or pause mode. This operation is impossible with the remote commander.

**To search while monitoring the sound**

**To move backward at high speed **A****  
Keep **[<<<<]** depressed and release it at the desired point.

**To move forward at high speed **B****

Keep **[>>>>]** depressed and release it at the desired point.

**To search quickly**

- 1 Press **[>||]** to put the unit into the pause mode.
- 2 Keep **[<<<<]** or **[>>>>]** depressed. The search speed increases, but there is no sound. Find the desired point by observing the display. Press **[>||]** again at the desired point to play.

**A**

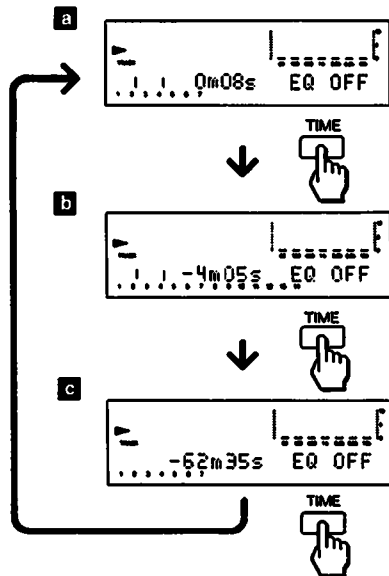


**B**

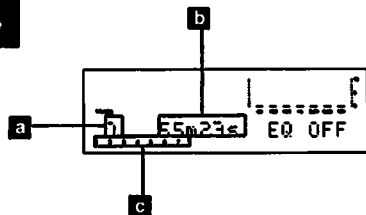


# CD Playing

**A**



**B**



## Information display

### To change the time display **A**

Press TIME on the remote commander during play. The display changes to give you the following information:

- a** Elapsed playing time of the current selection
- b** Remaining time in a selection.  
If the current selection number is over 20, "m-s" is displayed.
- c** Remaining time of the disc.

### To know the total playing time of the disc **B**

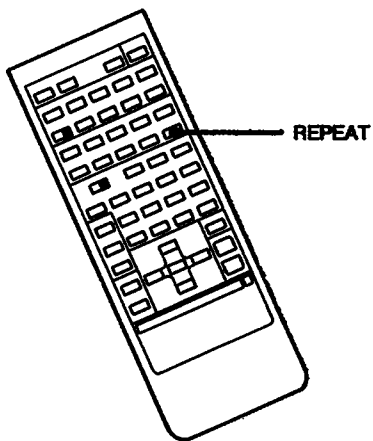
Press TIME during stop.

The following appears for about 4 seconds:

- a** Last track number
- b** Total playing time of the disc
- c** Track numbers

This information appears also when you close the tray by pressing  $\Delta$  OPEN/CLOSE.

## CD Playing



### Playing Repeatedly — Repeat Play

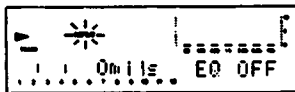
This operation is possible only with the remote commander.

**To repeat all the selections **A****  
Press REPEAT once during play so that "REPEAT" appears.

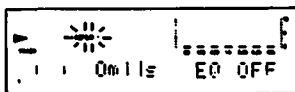
**To repeat a single selection **B****  
Press REPEAT twice while playing the desired selection so that "REPEAT 1" appears.

**To cancel repeat play**  
Press REPEAT so that neither "REPEAT" nor "REPEAT 1" appears.

**A**

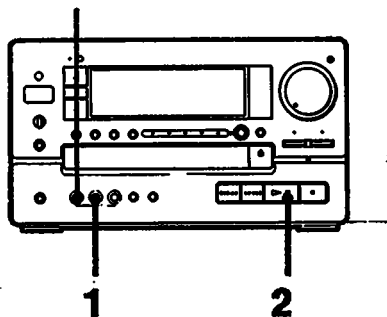


**B**

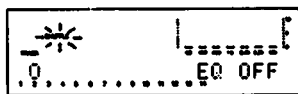


# CD Playing

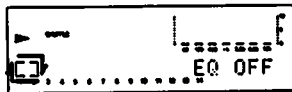
CONTINUE



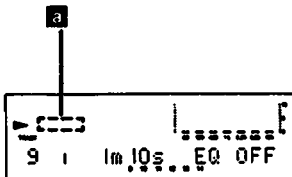
1



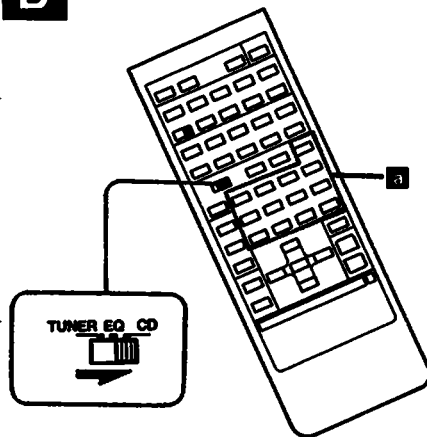
2



A



B



## Playing in a Random Order — Shuffle Play

Shuffle play function plays all selections in a random order.

This operation is not possible with the remote commander.

**1 Press SHUFFLE.**  
"SHUFFLE" appears.

**2 Press .**  
" " appears and then shuffle play starts.

**To stop playing**

Press .

**To cancel shuffle play**

Press CONTINUE.

"SHUFFLE" disappears (), and play continues in the normal play mode.

**To play only the desired selection in a random order**

— **Delete shuffle play**

You can delete the undesired selections before or during shuffle play.

This operation is possible only with the remote commander.

**To delete a selection**

Press the numeric buttons () for the selection you want to delete.

The number of the selection and "OFF" appear.

**To put back a selection that you deleted**

Press the numeric buttons for the selection you want to put back.

The number of the selection and "ON" appear.

**To put back all selections that you deleted**

Press during stop.

**When you press REPEAT during shuffle play**

After playing all the selections in a random order, shuffle play starts again in a different random order. During delete shuffle play, only the desired selections are played in a different random order.

**To check the remaining time**

Press TIME once to see the remaining time of the selection being played; twice to see the total remaining time of the selections to be played; once more to return to the initial display.

# CD Playing

## Playing Only the Desired Selections — Delete Play

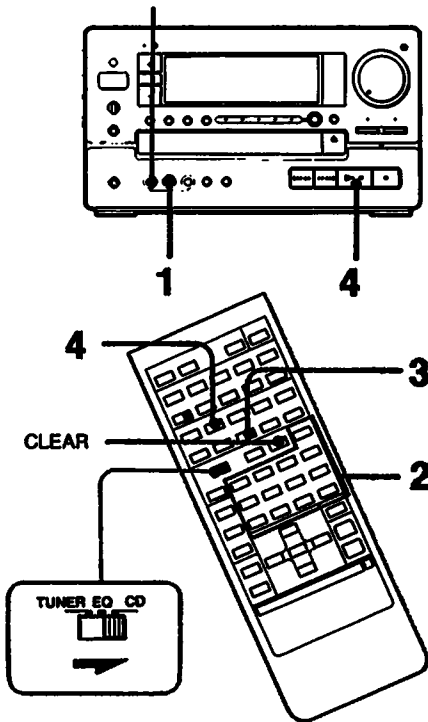
You can delete the undesired selections before or during play.

### To delete a selection before play

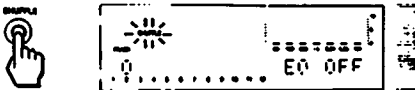
- 1 Press **SHUFFLE**.  
"SHUFFLE" appears.
- 2 Press the numeric buttons for the selection you want to delete.  
The number of the selection and "OFF" appear.
- 3 Press **CONTINUE**.  
"SHUFFLE" di
- 4 Press **▶||**.  
Delete play starts.

**To delete a selection during play **A****  
Press **CLEAR** while the selection you want to delete is playing.  
The number of the selection and "OFF" appear and the next selection begins to play.

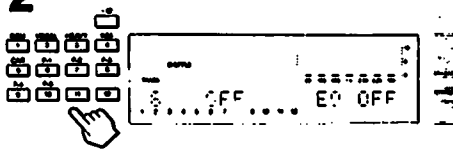
**To put back all the selections which you have deleted**  
Press **■** during stop.



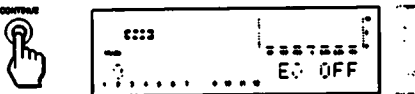
1



2



3



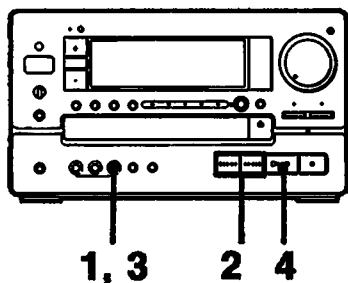
4



**A**



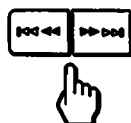
# CD Playing



1



2



3



4



## Playing in a Desired Order — Program Play

You can make a program of up to 24 selections in the order you want them to be played.

- 1 Press **PROGRAM**.  
"PGM" appears on the display.
- 2 Choose the desired selection to be programmed with **[<<<<]** or **[>>>>]**.
- 3 Press **PROGRAM**.  
The chosen selection number is memorized.

Repeat steps 2 and 3 to program the desired selections.

- 4 Press **[>II]**.

### To stop play

Press **[■]**.

To restart the same program play, press **[>II]**.

### To program a pause

Press **[II]** on the remote commander.

### Making a program for editing a tape

You can divide your program into programs A and B by inserting a pause between them. Use this function to make a program for both sides of the tape at one time.

- 1 Program the selections for program A.
- 2 Press **[II]** on the remote commander. "B" and "P" appear on the display and total playing time will be reset to 0.
- 3 Program the selections for program B.

After the program for side A is played, the player pauses with the chosen selections for program B lit on the display. Set the tape to the beginning of side B, then press **[>II]** to play the selections for program B.

### Programming selections directly

This operation is possible only with the remote commander.

- 1 Press **PROGRAM**.  
"PGM" appears.
- 2 Set the **TUNER/EQ/CD** selector to **CD**.
- 3 Press the numeric buttons for the desired selection in the desired order to be programmed.
- 4 Press **[▶]**.

### To resume normal play

Press **CONTINUE**.

The program is erased and the play continues in the normal play mode.

### To check the program

Press **CHECK**.

Each time you press **CHECK**, the number and step of the selection appear. After the last selection is displayed, "CHECK END" appears.

### To add a selection to the end of the program

Press the numeric buttons.

### To erase a selection

- 1 Press **CHECK** so that the number of the selection you wish to erase appears.
- 2 Press **CLEAR**.

### To erase the entire program

Press **[■]** once during stop; twice during play. The program is also erased when you turn off the system.

### If the selection number is greater than 10

Use the **> 10** and **1 to 10** buttons. 10 functions as the figure 0.

e.g. To choose the selection number 22, press **> 10, 2, 2**.

To choose the selection number 30, press **> 10, 3, 10**.

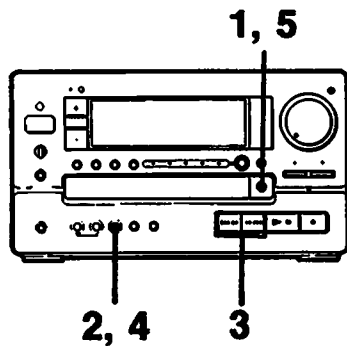
### If "-m-s" is displayed

- You have programmed a selection number over 20.
- The total time has exceeded 100 minutes.

### To check the remaining time

Press **TIME** once to see the remaining time of the selection being played; twice to see the total remaining time of the programmed selections; once more to return to the initial display.

# CD Playing



## Designating the Playing Order of Up To 6 Discs — Multi-disc Program

You can make a program by designating up to 24 selections from up to 6 discs in the desired order you want them to be played. At the same time, you can adjust the total playing time of the program. This function is convenient for editing tapes.

### To program selections

- 1 Insert the first disc.
- 2 Press PROGRAM.  
"PGM" appears.
- 3 Choose the desired selection to be programmed with  $\lll$  or  $\ggg$ .
- 4 Press PROGRAM.  
The chosen selection number is memorized.
- 5 Remove the disc and insert the second disc.  
"PGM (MULTI)" and "DISC 2" appear.

Repeat steps 3 and 4 to program the desired selections.

Repeat steps 3 to 5 to program additional selections.

Up to 24 selections from up to 6 discs can be programmed. The total playing time from the first disc appears for the time display.

### To program selections directly

This operation is possible only with the remote commander. (Set the TUNER/EQ/CD selector to CD.)

After the above step 2, press the numeric buttons for the desired selections. Then, go to step 5.

### To play the program

Insert the first disc and press  $\triangleright$  (▶) on the remote commander).

When "DISC 2" appears, replace with the second disc and press  $\triangleright$ . Continue replacing until the last disc. When playback of the last disc is completed, "DISC END" appears. The unit returns to the initial standby condition. You can play the same program again.

**To stop playing**  
Press  $\blacksquare$ .

**To resume normal play**  
Press CONTINUE.

**To check the program**  
Press CHECK.

Each time you press CHECK, the number of the disc and the selection appear. After the last selection is displayed, "CHECK END" appears.

**To erase a selection from the end of the program**

- 1 Insert the last disc.
- 2 Press CLEAR.  
Each time you press CLEAR, the selections are erased from the end of the program.  
If you insert a pause in your program, you cannot erase the selections programmed before the pause.

**To erase the entire program**

Press  $\blacksquare$  once during stop, twice during play.

**Note on multi-disc program**

You cannot use repeat play function

If "--m--" is displayed

- You have programmed a selection number over 20
- The total play time has exceeded 100 minutes

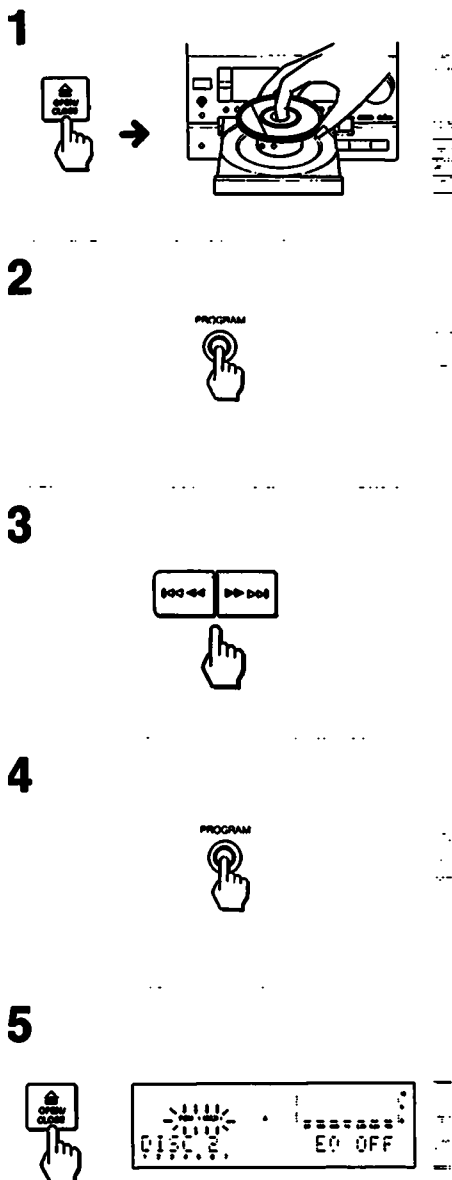
**To check the remaining time**

During play, press TIME once to see the remaining time of the selection being played, twice to see the total remaining time of the programmed selections of the disc being played, once more to return to the initial display

**To check the number of the disc inserted**

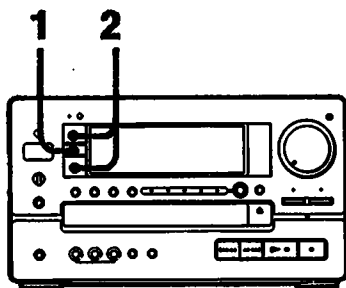
Press TIME during stop

The number of the disc appears





# Radio



The automatic tuning allows you to receive stations whose signal is strong enough. When the signal is too weak, use the manual tuning.

This operation is impossible with the remote commander.

## Tuning in Automatically

If the PRESET indicator is on, press PRESET/TUNING so that the PRESET indicator goes off.

- 1 Press BAND to display the desired band.**  
As you press BAND, the band changes as follows:

FM ↔ AM

- 2 Keep + or – depressed more than 1 second.**  
“AUTO” appears on the display and the unit tunes in the station automatically.

Repeat step 2 until the desired station appears.

## Tuning in Manually

If the PRESET indicator is on, press PRESET/TUNING so that the PRESET indicator goes off.

- 1 Press BAND to display the desired band.**
- 2 Press + or – repeatedly until the desired station appears.**

### Indicator on the display

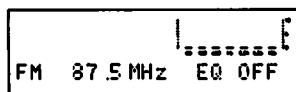
**TUNED:** Appears when a station with sufficient signal strength is tuned in.

**STEREO:** Appears when an FM stereo program with sufficient signal strength is received.

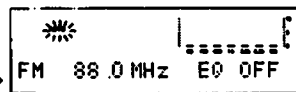
### Antenna adjustment **A**

For AM reception, find the best location for the supplied AM loop antenna.

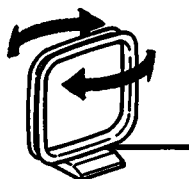
**1**



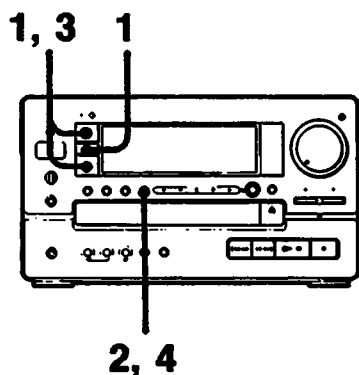
**2**



**A**



# Radio



## Storing Stations

You can store 20 FM and 10 AM stations in a desired sequence, so that you can tune in the stored station directly by entering the preset number.

This operation is impossible with the remote commander.

- 1 Tune in the desired station.**
- 2 Press MEMORY/NEXT.**  
"MEMORY" and the preset numbers appear on the display.
- 3 While "MEMORY" is on (for about 4 seconds), press + or - to select a desired preset number.**
- 4 Press MEMORY/NEXT.**  
The preset number appears and the station is stored.

Repeat steps 1 to 4 for each station to be stored.

**If you cannot store a station successfully**  
Press MEMORY/NEXT again so that "MEMORY" appears, then proceed with steps 3 and 4 above.  
Be sure to operate while "MEMORY" is on (about 4 seconds).

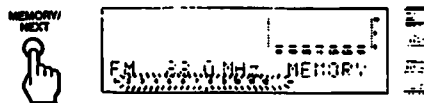
**If you selected the wrong preset number**  
Press MEMORY/NEXT again and then proceed with steps 3 and 4.

**To change the preset station**  
Store the desired station on the desired preset number by proceeding with the above steps.  
The station previously preset will be erased.  
Erasing only is not possible.

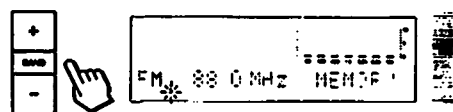
1



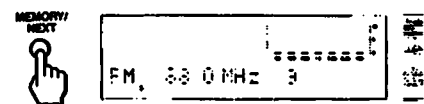
2



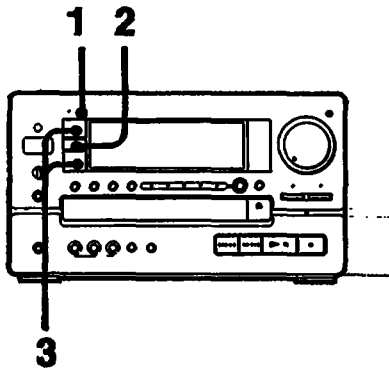
3



4



# Radio



## To Tune in a Preset Station

- 1 Press **PRESET/TUNING**.  
The PRESET indicator is on.
- 2 Press **BAND** to select a desired band.
- 3 Press **+** or **-** to select the desired preset number.

### To tune in a preset station directly

This operation is possible only with the remote commander.

Set the **TUNER/EQ/CD** selector to **TUNER**.

- 1 Press **BAND** to select a desired band.
- 2 Press the numeric buttons to select a desired preset number.

1



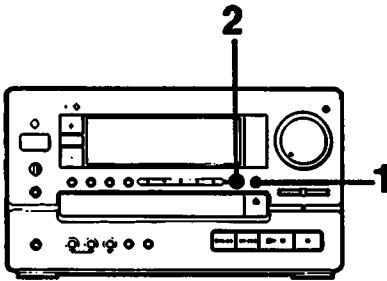
2



3



# Using the Graphic Equalizer



## Making Use of the Preset Equalizer Settings

When the system is shipped from the factory, 5 specially recommended settings of the graphic equalizer are stored. You can enjoy the effect of the equalizer by just choosing from the preset settings according to the program source.

- 1 If "EQ OFF" is displayed, press EQ ON/OFF so that "EQ ON" appears on the display.  
The PRESET indicator on the front panel is on.
- 2 Press PRESET until the desired preset equalizer setting is displayed by referring to the table below.

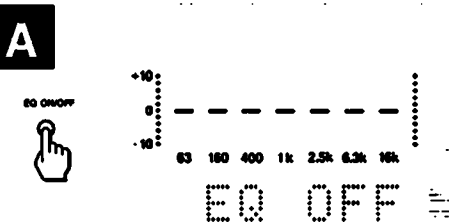
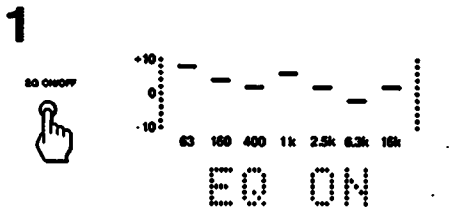
Display	Applications
BGM	For BGM.
VOCAL	For vocals.
HEAVY	For dynamic sound.
WM	For recording a tape to be listened to with stereo headphones.
CAR	For recording a tape to be listened to in a car.

### To select the preset equalizer setting with the remote commander

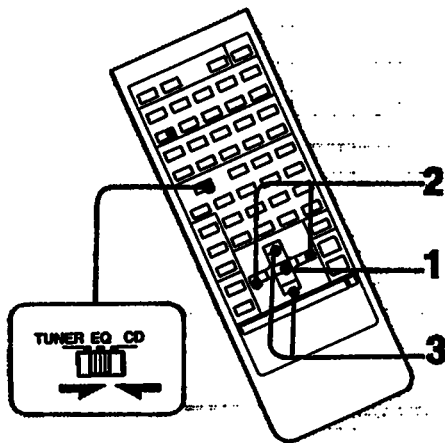
Set the TUNER/EQ/CD selector to EQ and press the desired preset equalizer setting button.

### When you do not want to apply the equalizer effect **A**

Press EQ ON/OFF so that "EQ OFF" appears on the display.



# Using the Graphic Equalizer



## Adjusting the Graphic Equalizer

This function allows you to adjust the sound by raising and lowering the level of specific frequency ranges. This operation is possible only with the remote commander.

- 1 Press EQ ON/OFF so that "EQ SET" appears on the display.
- 2 While the frequency range is flashing (for about 6 seconds), select the frequency range you wish to adjust using CURSOR CONTROL ► or ◀.
- 3 While the frequency range is flashing (for about 6 seconds), raise or lower the level of the frequency range with CURSOR CONTROL ▲ or ▼.

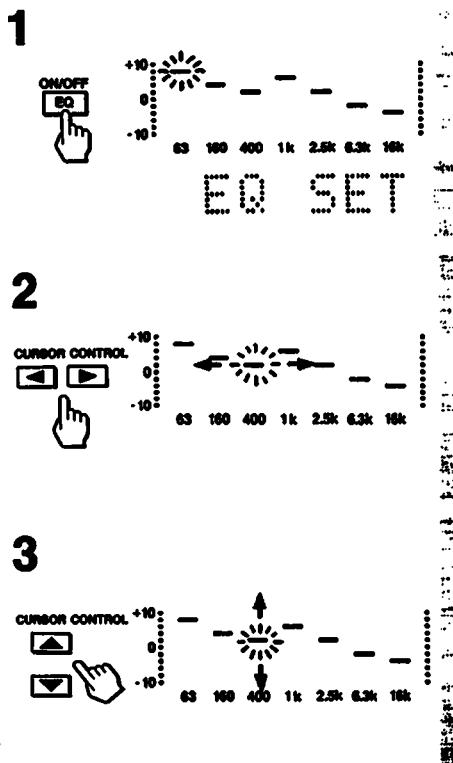
## Confirming the effect of the adjustment

Press EQ ON/OFF.

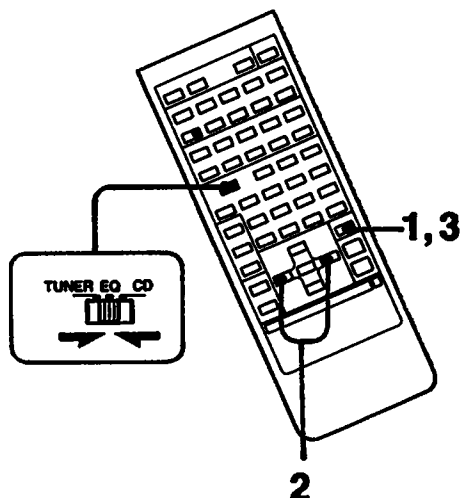
You can compare the difference between the adjusted setting ("EQ ON" is displayed) and no equalizer effect ("EQ OFF" is displayed).

## The sound you adjust

You can record the sound you have adjusted with the graphic equalizer and the S-SUR button.



# Using the Graphic Equalizer



## Storing Your Individual Graphic Equalizer Settings — Personal File

By storing your individual graphic equalizer setting in the Personal File, you can easily call up the setting at any time. You can store up to 5 settings.

This operation is possible only with the remote commander.

Adjust the sound with the graphic equalizer and the S-SUR button.  
(See page 8 and 21.)

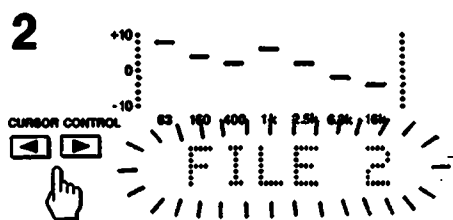
### 1 Press MEMORY.

"FILE 1" appears and flashes.

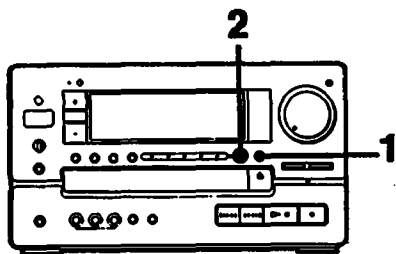
### 2 While "FILE 1" is flashing (for about 5 seconds), press CURSOR CONTROL ◀ or ▶ to select a desired personal File.

### 3 While the selected Personal File is flashing (for about 5 seconds), press MEMORY.

The selected Personal File stops flashing.  
The equalizer setting is stored in the selected Personal File. The setting previously stored in the file is erased and replaced by the new setting.



# Using the Graphic Equalizer



## Calling up the setting from the Personal File

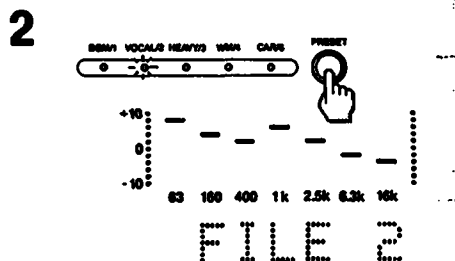
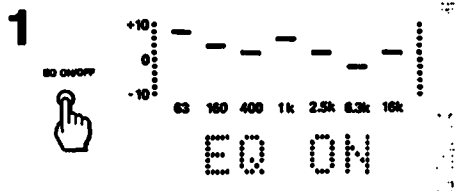
- 1 If "EQ OFF" is displayed, press EQ ON/OFF so that "EQ ON" appears on the display.

The PRESET indicator on the front panel is on.

- 2 Press PRESET until the desired Personal File is displayed.

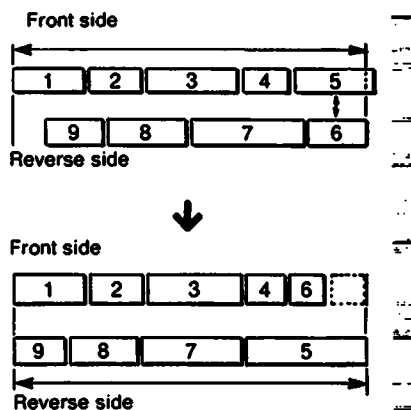
### To select the Personal File with the remote commander

Set the TUNER/EQ/CD selector to EQ and press the desired Personal File button.



# Editing the CD for Recording

**A**



## Designating the Total Playing Time — Time Edit/Just Edit

The CD player automatically edits the selections on a disc according to your designated total playing time. There are two ways of editing: Time Edit and Just Edit. These features are useful to edit programs according to the tape length when you connect a tape deck to this unit (see page 6).

### How the Time Edit function works **A**

The CD player programs the selections using each selection once, to fit your designated playing time by changing the order of the selections as little as possible. This function is convenient when you know the recording length of the tape.

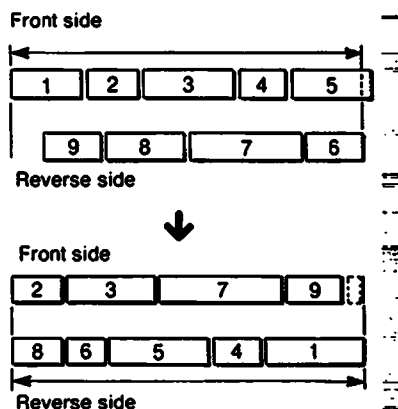
The player chooses the selections starting with the first one on the disc, summing up each ones playing time. When the total playing time exceeds the specified tape length, the last selection is eliminated and replaced with another selection which is not longer than the remaining time. The eliminated selection is recorded on the reverse side.

### How the Just Edit function works **B**

The player re-arranges the selections to fill in your designated playing time as completely as possible. This function is convenient when you want to record as many selections as possible.

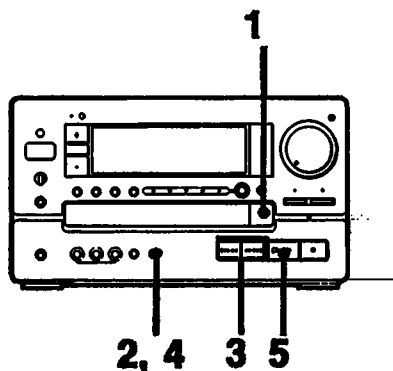
The player chooses the selections so that the total playing time best fits the length of side A. Then the player selects from the remaining selections to record on side B.

**B**





# Editing the CD for Recording



## Time Edit and Just Edit operations

- 1 Place the disc with the label side up, and close the tray.
- 2 Press EDIT/TIME FADE and display "EDIT" (Time Edit) or "JUST EDIT". To choose Time Edit, press EDIT once. To choose Just Edit, press EDIT twice.
- 3 Set the desired play duration.

When you use a cassette tape of 46, 54, 60, 74, or 90 minutes  
Press [◀◀◀] and [▶▶▶].  
As you press these buttons, the minute display changes as shown in the illustration.

### When you choose "HALF" during Time Edit

The player divides the selections on the disc into side A and side B without changing their order and records them so that no selection remains.

### When you choose "HALF" during Just Edit

The player programs the selections by changing their order so that the recording time of one side of the tape is half the total playing time of the whole disc. However, the program on side A may be a little longer than that on side B because the player distributes all the selections.

### When you want to specify the recording time (on one side of the tape) more accurately

Press the numeric buttons on the remote commander.  
e.g. To specify the time of 11 minutes 30 seconds  
Press "1", "1", "3", and "0".  
(10 functions as the figure 0.)

## 4 Press EDIT/TIME FADE.

The selections to be recorded on one side are determined automatically. Then the display shows **a** the last selection to be recorded, **b** the programmed order, **c** total playing time, and **d** the selections to be recorded.

### For recording on both sides

Press EDIT/TIME FADE again. The selections to be recorded on the other side are determined.

## To add selections (Link function)

If there is remaining time even after programming all the selections on the disc, the LINK indication and the selection numbers that can be recorded within the time flash on the display window. You can choose from these selections to add to the program. When you want to record the selections of another disc, replace the disc. The selection numbers that fit in the remaining time flash in the same way.

There are two ways of adding selections:

- Press the numeric buttons for each selection.  
That selection is added and if there is more space, "LINK" and the selection numbers flash again.
- Press EDIT/TIME FADE.  
All the selections that fit in the remaining time are programmed.

## 5 Press ▶ to play the program.

When all the selections for side A are played, the player pauses and "B" appears on the display. Set the tape to the beginning of side B, and press ▶ to play the selections for side B.

## To stop playing

Press [■].

## Note

Do not press any other buttons than those mentioned in the procedure during Time Edit or Just Edit.

## To choose the desired selections preferentially

You can place priority on some selections by pre-selecting them first using the program function. (See page 15.)

Note: The Time Edit and Just Edit functions work only for the selections between track number 1 to 20 in the disc.

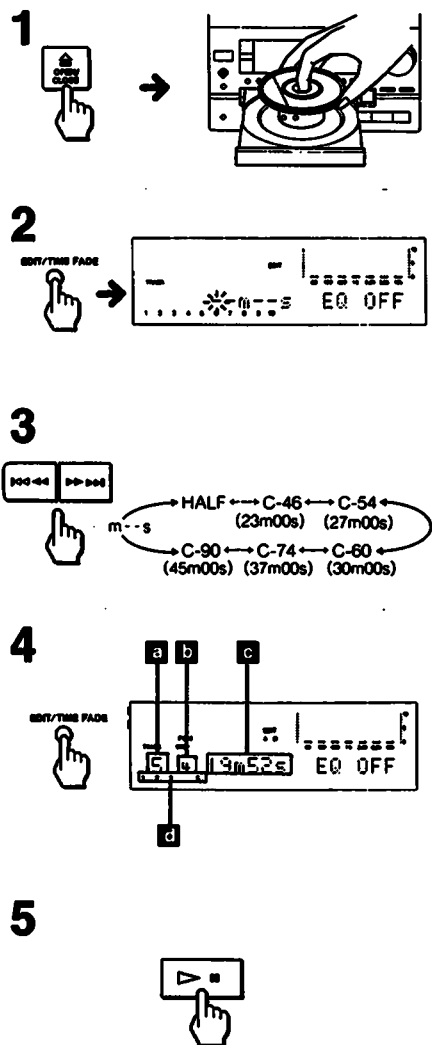
## To check the program

Press CHECK.

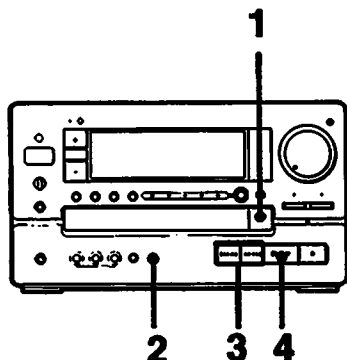
On the display, "A" appears while checking the program on side A, and "B" appears while checking the program on side B.

## If it takes time for programming during Just Edit

For some discs with many selections, it may take much time for programming. In that case, press [■] if you want to cancel the Just Edit operation.



# Editing the CD for Recording



## Fading Out at a Designated Point — Time Fade

You can have the disc play fade out at the end by designating the play duration. 5 seconds before the designated point, the player starts to fade out and at the designated point, enters pause mode. This function works for both sides of the tape by designating the time once. This function works also during repeat, shuffle, and program play. This feature is useful for recording from a CD when you want to fade out naturally at the end of the tape without breaking abruptly in the middle.

### Time Fade operation

**1** Place the disc with the label side up, and close the tray.

**2** Press EDIT/TIME FADE three times and display "TIME FADE".

**3** Set the desired play duration.

When you use a cassette tape of 46, 54, 60, 74, or 90 minutes

Press  $\lll$  and  $\ggg$ .

As you press these buttons, the minute display changes as shown in the illustration.

When you choose "HALF"

The player fades out after playing just the half of the total playing time of the disc.

When you want to specify the recording time (of one side of the tape) more accurately

Press the numeric buttons on the remote commander.

e.g. To specify the time of 11 minutes 30 seconds

Press "1", "1", "3", and "10".

(10 functions as the figure 0.)

**4** Press  $\triangleright$  to start playing.

When playback ends

The CD player fades out and enters pause mode at the designated point.

"TIME FADE B" appears on the display. If you want also to record on side B, set the tape to the beginning of side B, and then press  $\triangleright$  to resume disc play.

When disc play for side B ends and fades out, the player enters pause mode and exits the Time Fade mode.

To stop playing

Press  $\blacksquare$

To cancel the Time Fade function

During stop, press EDIT/TIME FADE so that "TIME FADE" disappears.

When the disc play ends during Time Fade

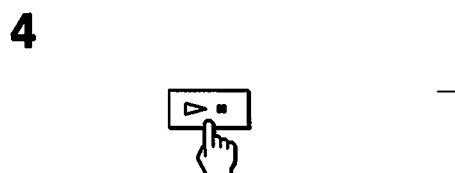
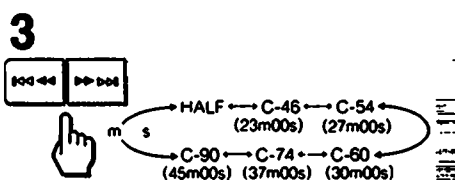
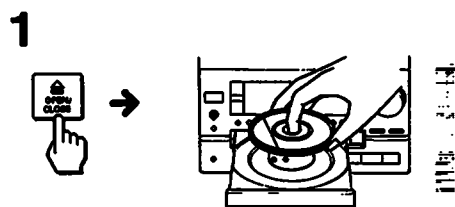
The Time Fade function is still active. If you replace the disc and start playing, the player fades out when the total playing time of the discs reaches the designated time.

About the remaining time during Time Fade

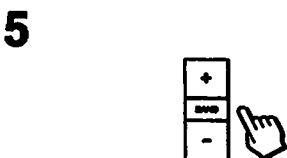
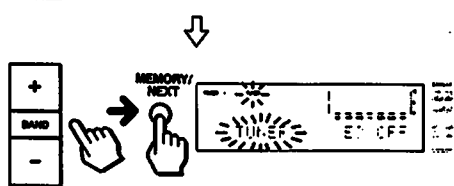
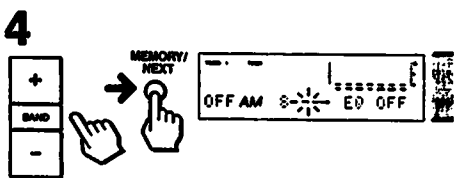
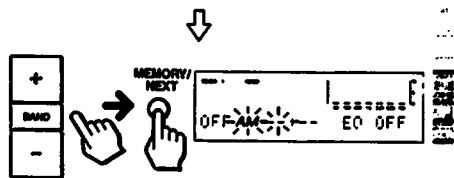
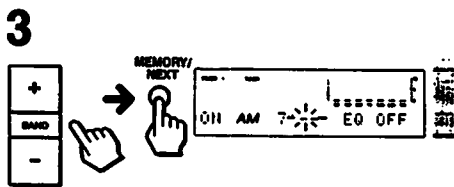
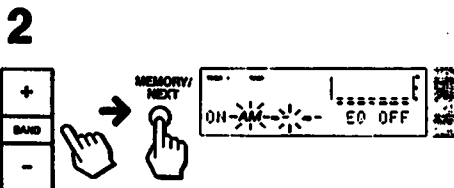
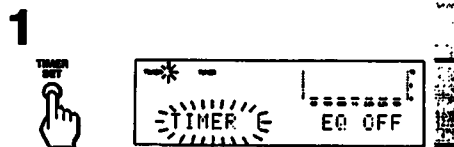
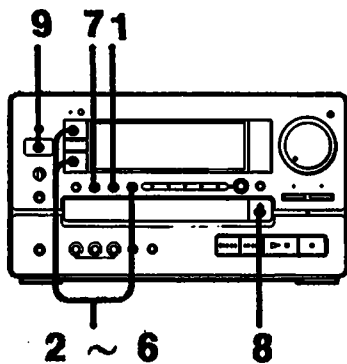
When you press TIME twice, the remaining time to the designated point is displayed

If you press  $\lll$  or  $\ggg$

Time Fade will be canceled



# Timer-activated Operation



The power can be turned on and off automatically so that you can wake up to music. The preset timer-on and -off times remain until you reset them or you disconnect the power cord. You can preset up to three sets of timer-activated operations. You can also preset the volume for the time that the power turns on. (See "Wake Up Volume," page 29.)

## Before setting the timer

Make sure the clock is set correctly. (See page 7.)

## Timer Setting

- 1 Press TIMER SET.**  
"TIMER 1" appears and flashes on the display.
- 2 Select the timer (TIMER 1, TIMER 2, or TIMER 3) by pressing + or - and MEMORY/NEXT.**  
The hour digits flash.
- 3 Set the hour and minute of the timer-on time by pressing + or -, and MEMORY/NEXT.**  
"OFF" appears and the hour digits flash again.
- 4 Set the hour and minute of the timer-off time by pressing + or -, and MEMORY/NEXT.**  
The program source flashes.
- 5 Select the program source by pressing + or -.**  
As you press them, the source changes as follows:

TUNER ↔ CD PLAY

### To listen to the radio

- 1) Press MEMORY/NEXT. The frequency display appears.
- 2) Press + or - to tune in the desired preset station.

### To listen to a CD

- 1) Press MEMORY/NEXT. The selection number display appears.
- 2) Press + or - to select the desired selection.

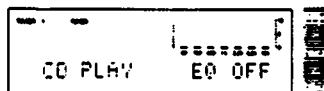
(to be continued)

# Timer-activated Operation

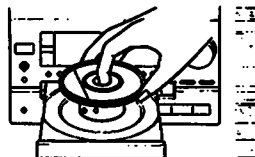
6



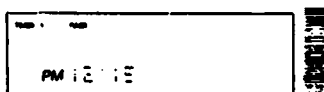
7



8



9



(continued)

## 6 Press MEMORY/NEXT.

The preset items appear sequentially.

Repeat steps 1 to 6 if you want to preset the other two timers.

## 7 Press TIMER SELECT and display the timer you choose to activate (TIMER 1, TIMER 2, or TIMER 3).

## 8 • For listening to a CD:

Insert the disc.

## • For listening to the radio:

You do not have to tune in the station.

## 9 Press SYSTEM POWER to turn off the system.

Make sure that the timer you chose is displayed. At the timer-on time, the system turns on automatically.

## To change the time and program

### 1 Press TIMER SET.

### 2 Press + or – to display the timer you want to change.

### 3 Press MEMORY/NEXT until the item to be changed flashes.

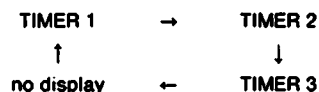
### 4 Press + or – to change that item.

### 5 Press MEMORY/NEXT until the preset items appear sequentially.

## When you do not want to use the timer program

Press TIMER SELECT until "TIMER" disappears.

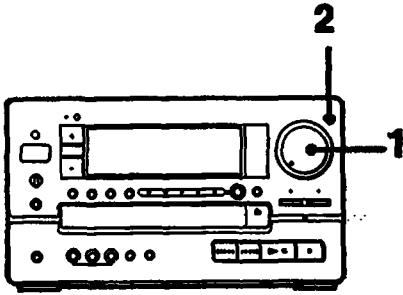
Each time you press it, the display changes as follows:



## When the power is already on at the preset time

The program source automatically changes to the preset one, even if you are playing another program source.

## Storing the Volume Setting for Timer-activated Operation — Wake Up Volume



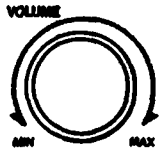
The volume setting is called up automatically when the power is turned on for timer-activated operation (page 27). This is convenient for when you want to wake up to music, etc. You can also use the Sleep Timer function (page 30) together with this function to listen to music at a low volume when you go to sleep, and at a high volume when you wake up.

**1 Adjust the VOLUME.**

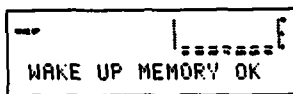
**2 Keep WAKE UP depressed until "WAKE UP MEMORY OK" appears on the display.**  
"WAKE UP" appears.

**When you do not want to use the Wake Up Volume**  
Press WAKE UP so that "WAKE UP" disappears.

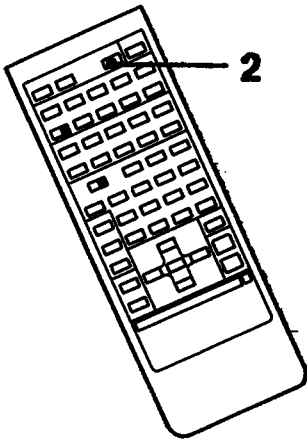
1



2



# Sleep Timer Operation

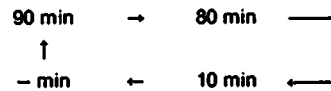


By setting the sleep timer, the system power can be turned off after the preset duration (up to 90 minutes). This operation is possible only with the remote commander.

**1** Play the desired program source.

**2** Press **SLEEP** to select the desired duration in minutes.

As you press **SLEEP**, the indication changes as follows:



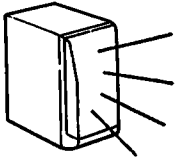
**To turn off the system before the time of the sleep timer comes**  
Press **SYSTEM POWER**.

**To check the remaining time of the sleep timer**

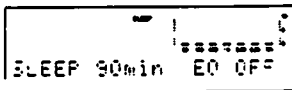
Press **SLEEP** once, and the remaining time appears.

The display returns to the previous indication automatically in several seconds.

**1**



**2**



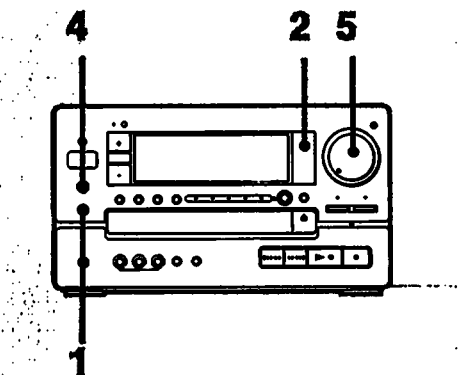
# Microphone Mixing

## Mixing Operation

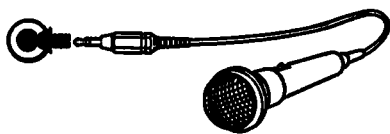
- 1 Connect the microphone to MIX MIC jack.
- 2 Press FUNCTION to select program source and play it.
- 3 Sing or speak into the microphone.
- 4 Adjust the microphone volume with MIC LEVEL.
- 5 Adjust the overall volume with VOLUME control.

When the mixing is over  
Be sure to disconnect the microphone.

To stop howling (acoustic feedback)  
Placing the microphone too close to the speakers may cause howling. Move the microphone away from the speakers or change the direction it faces.



1  
MIX MIC



2



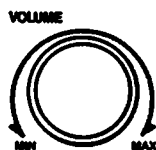
3



4

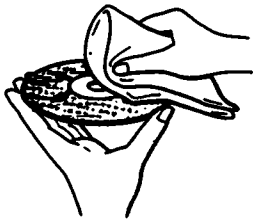


5



# Maintenance

**A**



## Cleaning the Cabinet

Use a soft cloth slightly moistened with a mild detergent solution.

## Cleaning Discs **A**

When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.

Do not use solvents such as benzine, thinner, commercially available cleaners, or anti-static spray intended for analog discs.



# Specifications

## AUDIO POWER SPECIFICATIONS

### POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6 ohm loads both channels driven, from 80 — 20000 Hz; rated 18 watts per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milliwatts to rated output.

#### Tuner Section (HCD-H300)

System	FM stereo, FM/AM superheterodyne tuner
<b>FM tuner section</b>	
Tuning range	87.5 — 108 MHz
Antenna terminals	75 ohms unbalanced
Intermediate frequency	10.7 MHz
<b>AM tuner section</b>	
Tuning range	530 — 1,710 kHz (with the AM tuning interval set at 10 kHz) 531 — 1,710 kHz (with the AM tuning interval set at 9 kHz)
Antenna	AM loop antenna External antenna terminals
Intermediate frequency	450 kHz

#### Amplifier Section (HCD-H300)

Continuous RMS power output		30 + 30 watts (6 ohms at 1 kHz, 5% THD)
Inputs	MIX MIC (minijack): sensitivity 1 mV, impedance 600 ohms	
	DAT/TAPE IN: sensitivity 450 mV, impedance 47 kilohms	
	VIDEO/AUX (phono jacks): sensitivity 450 mV, impedance 47 kilohms	
	HEADPHONES (stereo minijack): accepts headphones of 8 ohms or more.	
	SPEAKER: accepts speakers of 6 to 16 ohms	
Output	DAT/TAPE OUT: 250 mV, impedance 1 kilohm	

#### Compact Disc Player Section (HCD-H300)

System	Compact disc digital audio system
Laser	Semiconductor laser ( $\lambda = 780 \text{ nm}$ ) Emission duration continuous
Signal to noise ratio	More than 90 dB
Dynamic range	More than 90 dB
Harmonic distortion	Less than 0.05% (at 1 kHz)
Channel separation	More than 90 dB

#### Speaker Section (SS-H1600L)

Speaker system	2 way
Speaker units	Woofer: 13 cm dia., cone type
	Tweeter: 5 cm dia., cone type
Enclosure type	Bass reflex
Frequency range	65 Hz — 20 kHz
Sensitivity	88 dB/W/m
Impedance	6 ohms
Dimensions	Approx. 165 x 250 x 230 mm (w/h/d)
	(6 1/2 x 9 7/8 x 9 1/8 inches)
Weight	Approx. 2.6 kg (6 lb 10 oz) net, per speaker

#### General

Power requirements	120 V AC, 60 Hz
Power consumption	80 watts
Dimensions	Approx. 225 x 125 x 265 mm (w/h/d)
	(8 7/8 x 5 x 10 1/2 inches)
Weight	Approx. 4.5 kg (9 lb 15 oz)
Supplied accessories	Remote Commander (1)
	Sony SUM-3 (NS) batteries (2)
	AM loop antenna (1)
	FM antenna (1)
	AC power cord (1) Speaker cord (2)

Design and specifications are subject to change without notice.

# Troubleshooting Guide

The following checks will assist in the correction of most problems which you may encounter with your system. Before going through the check list below, first check the following points.

- The power cord must be connected firmly.
- The speaker connection must also be firm.

Should any problem persist after you have made these checks, consult your nearest Sony dealer.

## Radio Reception

Symptom	Cause (and Remedy)
The TUNED indicator flashes.	● Adjust the antenna.
The STEREO indicator flashes.	● Adjust the antenna.
Severe hum or noise.	<ul style="list-style-type: none"> <li>● Adjust the antenna.</li> <li>● The signal strength is too weak. Connect the external antenna. (See page 5.)</li> <li>● Connect the ground wire.</li> </ul>

## CD Player Operation

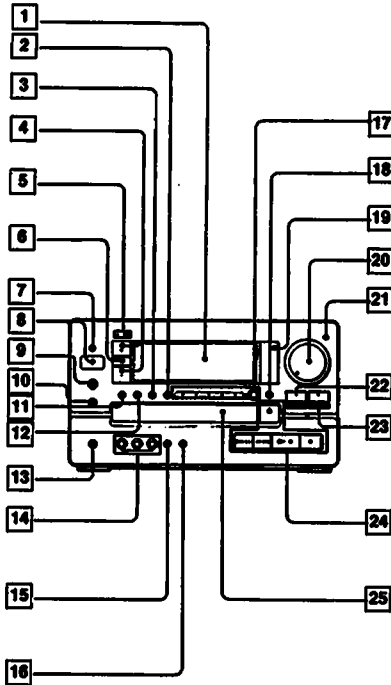
Symptom	Cause (and Remedy)
The disc tray does not close.	● The disc is not placed correctly.
Play does not start.	<ul style="list-style-type: none"> <li>● Dirty disc. (See page 32.)</li> <li>● The disc is inserted upside down.</li> <li>● The player is in the pause mode.</li> <li>● Moisture condensation. (See page 4.)</li> </ul>
"NO DISC" is displayed.	● There is no disc in the player.
Play does not start from the first selection.	● The player is in the PROGRAM or SHUFFLE mode. Press CONTINUE.
"1 7" is displayed.	● ►►►► was continuously pressed at the end of the disc. Press ◀◀◀◀ to return to the normal indication.

## General

Symptom	Cause (and Remedy)
No sound.	<ul style="list-style-type: none"> <li>● Turn VOLUME clockwise.</li> <li>● The headphones are connected. Disconnect them.</li> </ul>
No sound from one channel or unbalanced left and right volume.	● Check the speaker connections of the inoperative channel.
Reversed left and right sound.	● Check the speaker cord connection and speaker location.
Lack of bass sound or apparently imprecise physical location of musical instruments	● Check the speaker connection for proper phasing.
Severe hum or noise	● The TV or VCR is too close to the stereo system. Separate the stereo system from the TV or VCR.

# Parts Identification

**A**



Refer to the pages indicated in ● for use of the buttons.

## Tuner/Amplifier/CD player Section A

- 1 Display window
- 2 MEMORY/NEXT button ●
- 3 TIMER SET button ●
- 4 TUNING PRESET/TIMER +/- buttons ●
- 5 PRESET/TUNING button and PRESET indicator ●
- 6 BAND button ●
- 7 Remote control sensor
- 8 SYSTEM POWER button ●
- 9 MIC (microphone) LEVEL control ●
- 10 MIX MIC (mixing microphone) input jack (minijack) ●
- 11 CLOCK SET button ●
- 12 TIMER SELECT button ●
- 13 HEADPHONES jack (stereo minijack) ●
- 14 PLAY MODE buttons  
CONTINUE button ●  
SHUFFLE button ●  
PROGRAM button ●
- 15 CHECK button ●
- 16 EDIT/TIME FADE button ●
- 17 PRESET button and indicators ●
- 18 EQ (equalizer) ON/OFF button ●
- 19 FUNCTION button ●
- 20 VOLUME control ●
- 21 WAKE UP button ●
- 22 S-SUR (Simulated surround) button and indicator ●
- 23 DBFB (Dynamic Bass Feedback) button and indicator ●
- 24 CD operation buttons  
△ : OPEN/CLOSE ●  
■ : Stop ●  
▷|| : Play/pause ●  
◀◀◀▶▶▶▶▶ : Manual search (when kept depressed)/Automatic Music Sensor (when pressed) ●
- 25 Disc tray ●

## Remote Commander B

- 1 TIMER SELECT button ●
- 2 CLOCK DISPLAY button ●
- 3 Cassette deck select button (not used for this model)
- 4 DECK A/B selector (not used for this model)
- 5 CD player select button
- 6 CD player operation buttons ●
- 7 TUNER/EQ/CD selector ●
- 8 CHECK (CD player) ● / BAND (tuner) button ●
- 9 Tuner select button
- 10 PHONO select button (not used for this model)
- 11 DAT select button ●
- 12 VIDEO select button ●
- 13 S-SUR button ●
- 14 DBFB button ●
- 15 SLEEP timer button ●
- 16 SYSTEM POWER button ●
- 17 Cassette deck operation buttons (not used for this model)
- 18 TIME button ●
- 19 PLAY MODE buttons ●
- 20 CLEAR button ●
- 21 TUNER/EQ/CD numeric buttons ●
- 22 MEMORY button ●
- 23 VOLUME +/- control buttons ●
- 24 EQ ON/OFF button ●
- 25 CURSOR CONTROL buttons ●

**B**

