SHARP

MINI KOMPONENTEN SYSTEM
MINI-CHAÎNE
SISTEMA MINI
MINI KOMPONENT SYSTEM
MINI SISTEMI
MINI SYSTEEM
MINI COMPONENT SYSTEM

BEDIENUNGSANLEITUNG
MODE D'EMPLOI
MANUAL DE MANEJO
BRUKSANVISNING
MANUALE DI ISTRUZIONI
GEBRUIKSAANWIJZING
OPERATION MANUAL

MODELL   MODELLO
MODÈLE   MODEL
MODELO   MODEL
MODELL   MODEL
CD-BA1200H

Mini Komponenten System CD-BA1200H besteht aus CD-BA1200H (Hauptgerät) und CP-BA1200H (Lautsprecher-System).

Mini-chaîne CD-BA1200H composée de CD-BA1200H (appareil principal) et de CP-BA1200H (enceintes acoustiques).
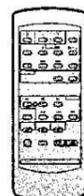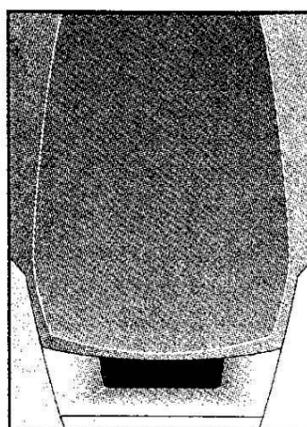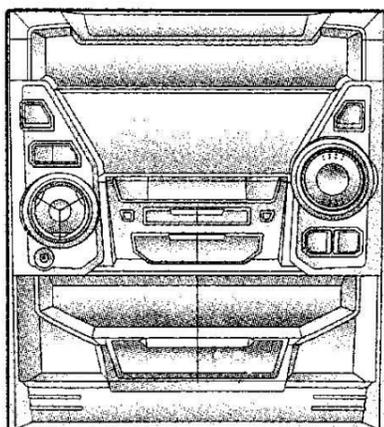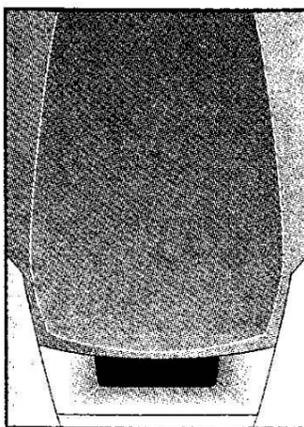
Sistema mini CD-BA1200H que consta de CD-BA1200H (aparato principal) y CP-BA1200H (sistema de altavoces).

CD-BA1200H mini komponent system bestående av CD-BA1200H (huvudenhet) och CP-BA1200H (högtalarsystem).

Mini sistemi CD-BA1200H composto da CD-BA1200H (apparecchio principale) e CP-BA1200H (sistema di diffusori).

CD-BA1200H mini systeem bestaande uit CD-BA1200H (hoofdtoestel) en CP-BA1200H (luidsprekersysteem).

CD-BA1200H Mini Component System consisting of CD-BA1200H (main unit) and CP-BA1200H (speaker system).

COMPACT
disc
DIGITAL AUDIO

SAVING ENERGY
STAND-BY POWER
CONSUMPTION 0.6w

DEUTSCH

FRANÇAIS

ESPAÑOL

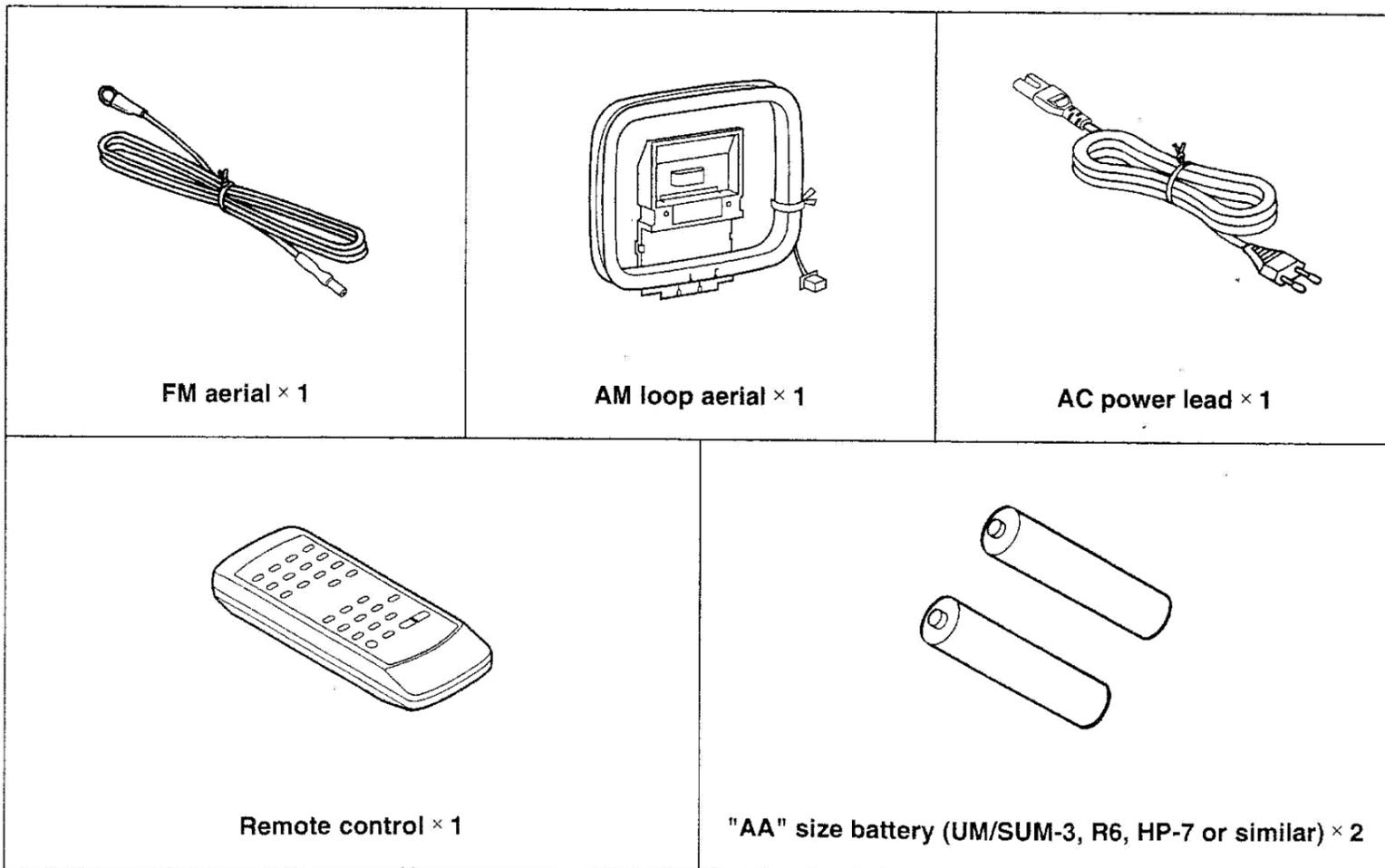SVENSKA

ITALIANO

NEDERLANDS

ENGLISH

ENGLISH

INTRODUCTION

Thank you for purchasing this SHARP product. To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

CONTENTS

ACCESSORIES

FM aerial × 1

AM loop aerial × 1

AC power lead × 1

Remote control × 1

"AA" size battery (UM/SUM-3, R6, HP-7 or similar) × 2

Note:
Parts and accessories mentioned in this operation manual other than those in the drawing are not included.

PRECAUTIONS

■ General

● Please ensure that the equipment is positioned in a well ventilated area and ensure that there is at least 10 cm (4") of free space along the sides, top and back of the equipment.
● Do not use oil, solvents, petrol, paint thinners or insecticides on the unit.
● Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extreme low temperatures.
● Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generates electrical noise.
● Hold the AC power plug by the head when removing it from the AC socket, as pulling the lead can damage internal wires.
● When cleaning the heads, pinch rollers, etc., remove the AC power plug from the wall socket as the unit contains high voltages. Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.
● Use the unit on a firm, level surface free from vibration, and do not place anything on the top of the unit.
● If the unit does not work properly whilst in use, disconnect the AC power lead from the AC socket. Plug the AC power lead back in, and then press the ON/STAND-BY button to turn the power on.
● If an electrical storm is taking place near you, it is suggested that you disconnect the AC power lead from the AC socket for safety.
● The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.
● No naked flame sources, such as lighted candles, should be placed on the apparatus.
● Attention should be drawn to the environmental aspects of battery disposal.
● The apparatus is designed for use in moderate climate.

Warning:
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

■ Volume control

The sound level at a given volume setting depends on a combination of speaker efficiency, location and various other factors. It is advisable to avoid exposure to high volume levels, which occur whilst turning the unit on with the volume control setting up high, or whilst continually listening at high volumes.
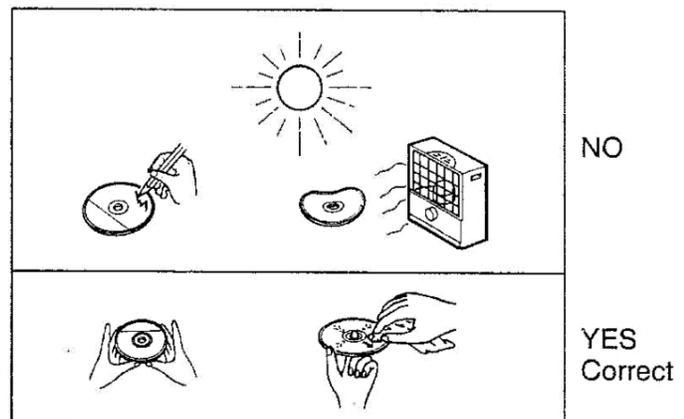
■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, tape heads, etc.) or on the transmitter LED on the remote control.
Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc (or cassette) in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter LED with a soft cloth before operating the unit.
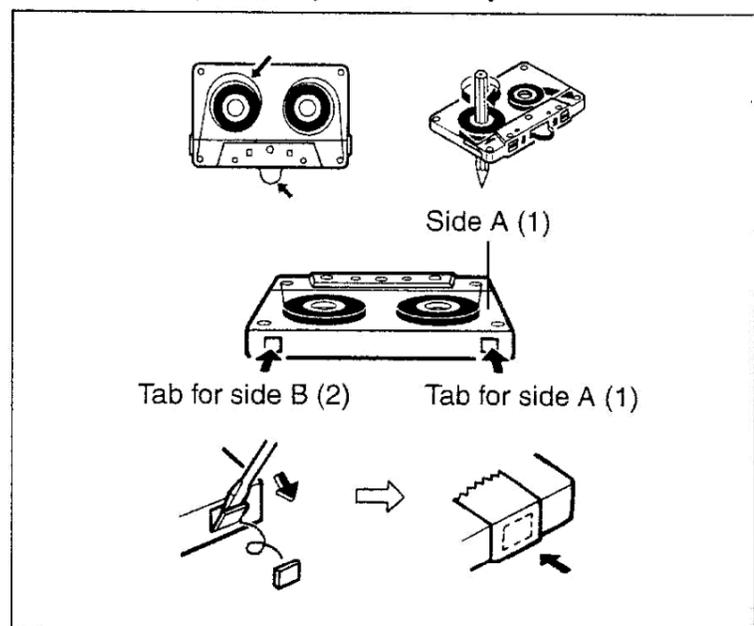
■ Care of compact discs

Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your discs and unit.
● Do not write on either side of the disc, particularly the non-label side. Signals are read from the non-label side. Do not mark this surface.
● Keep your discs away from direct sunlight, heat, and excessive moisture.
● Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.
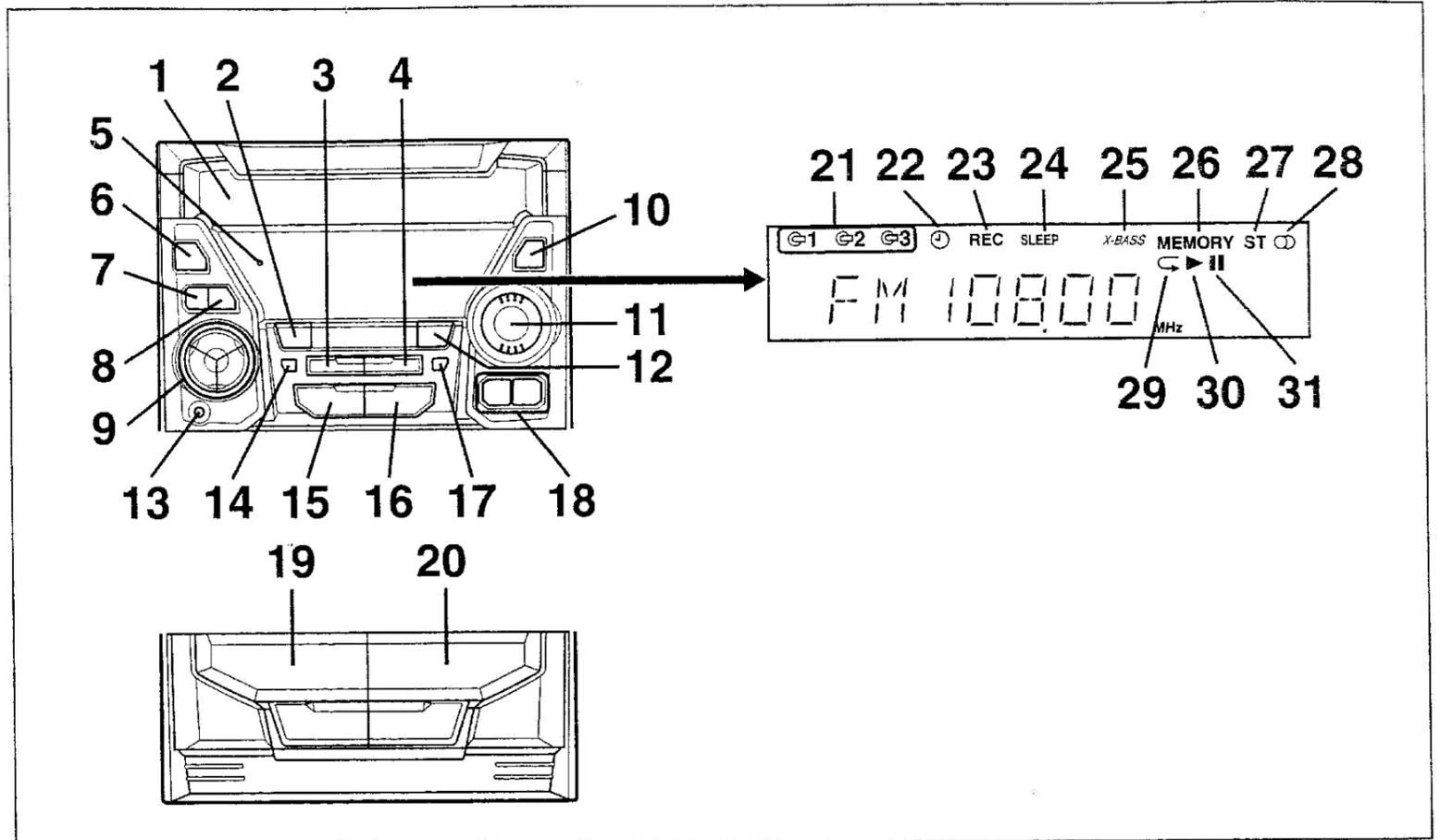

NO

YES
Correct

■ Cassette tape

● For playback, use normal or low-noise tape for the best sound. (Metal or CrO_2 tape is not recommended.) For recording, use only normal tape.
● Do not use C-120 tapes, tapes with large diameter reels, or poor-quality tapes, as they may cause malfunctions.
● Before loading a tape into the cassette compartment, tighten the slack with a pen or pencil.
● Cassettes have removable tabs which prevent accidental recording or erasing from taking place. Removing the tab will protect the corresponding side from being erased. Cover the tab holes with adhesive tape to erase or record again.
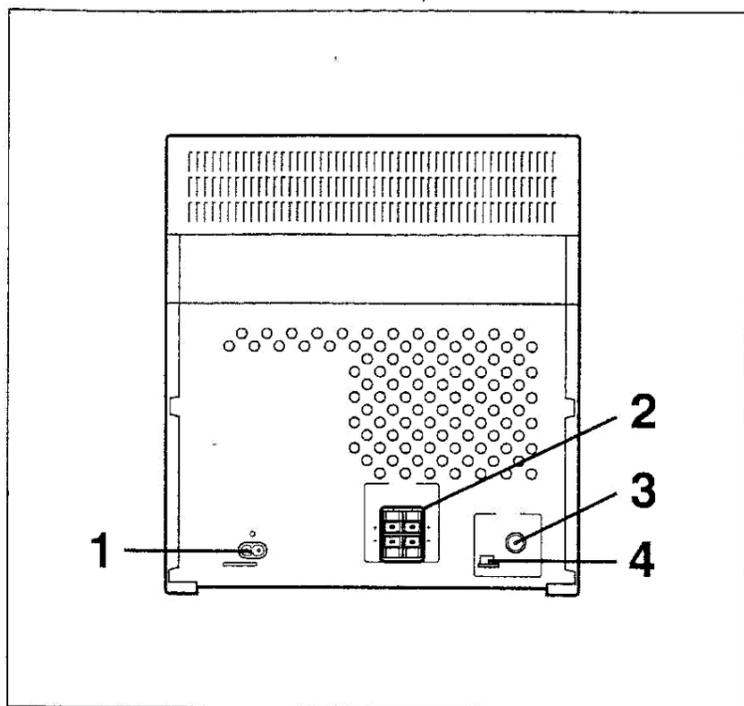● TAPE 1: Playback only. TAPE 2: Playback or record.

Side A (1)

Tab for side B (2)   Tab for side A (1)

■ Front panel

vever mis-
on the disc
um enjoy-

cularly the
label side.

heat, and

ts, dirt, or
ng. If a CD
a soft, dry
along the

IO

ES
correct

r the best
ided.) For

eter reels,
nctions.
ipartment,

accidental
ng the tab
g erased.
or record

cord.

1. (CD) Disc Tray
2. (CD) Disc Skip Button
3. (CD) Track Down/Review Button
   (TUNER) Preset Down Button
   (TAPE 2) Rewind Button
4. (CD) Track Up/Cue Button
   (TUNER) Preset Up Button
   (TAPE 2) Fast Forward Button
5. Timer Set Indicator
6. On/Stand-by Button
7. Timer/Sleep Button
8. Clock Button
9. Function Selector Buttons
10. Equalizer Mode Selector/Extra Bass/Demo Mode
    Button
11. Volume Up/Down Buttons
12. (CD) Open/Close Button
13. Headphone Socket
14. Memory/Set Button
15. (CD/TAPE) Stop Button
16. (CD) Play/Repeat Button
    (TAPE) Play Button
17. (TAPE 2) Record Pause Button
18. Tuning and Time Up/Down Buttons

19. (TAPE 1) Cassette Compartment
20. (TAPE 2) Cassette Compartment

21. (CD) Disc Number Indicators
22. Timer Indicator
23. Record Indicator
24. Sleep Indicator
25. Extra Bass Indicator
26. (CD/TUNER) Memory Indicator
27. FM Stereo Mode Indicator
28. FM Stereo Indicator
29. (CD) Repeat Indicator
30. (CD/TAPE) Play Indicator
31. (CD) Pause Indicator

■ Rear panel
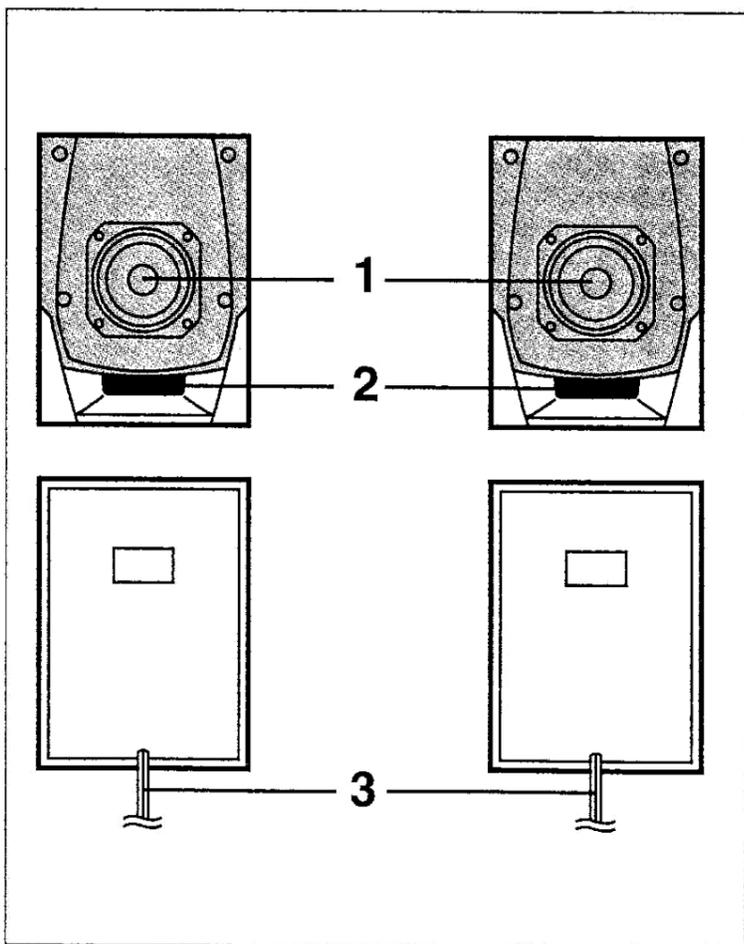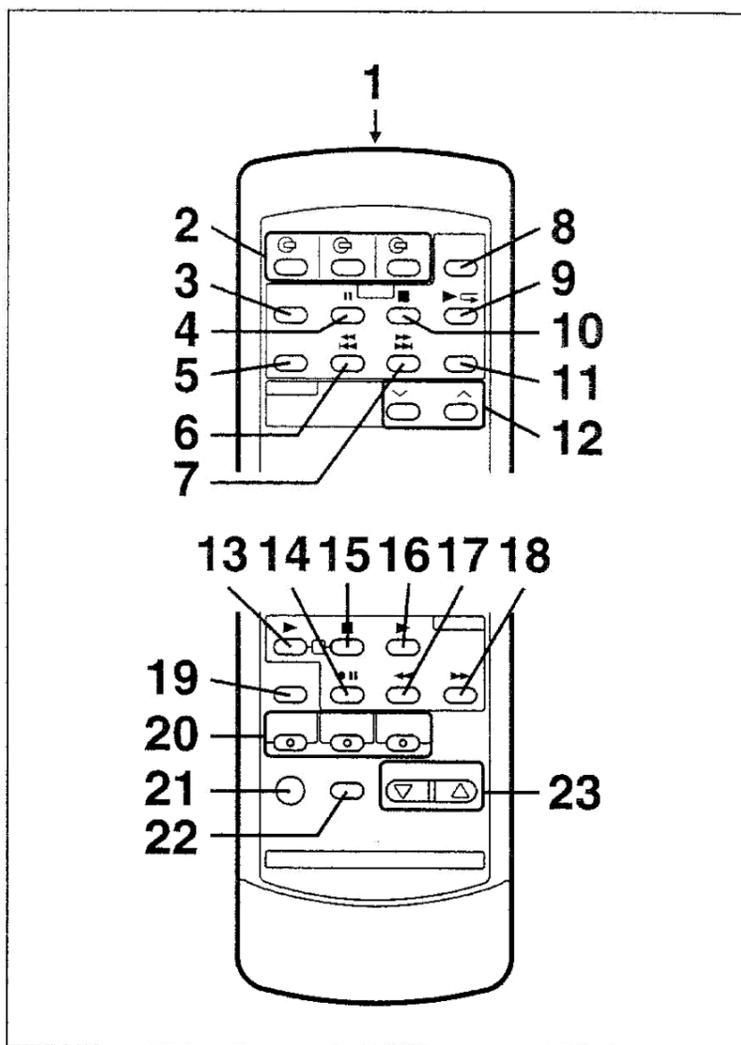

1. AC Power Input Socket
2. Speaker Terminals
3. FM 75 Ohms Aerial Socket
4. AM Loop Aerial Socket

■ Speaker

1. Full-Range Speaker
2. Bass Reflex Duct
3. Speaker Wire

■ Remote control

1. Remote Control Transmitter LED

● CD control section
2. Disc Number Select Buttons
3. Memory Button
4. Pause Button
5. Clear Button
6. Track Down/Review Button
7. Track Up/Cue Button
8. Disc Skip Button
9. Play/Repeat Button
10. Stop Button
11. Random Button

● Tuner control section
12. Preset Up/Down Buttons

● Tape control section
13. (TAPE 1) Play Button
14. (TAPE 2) Record Pause Button
15. (TAPE 1/2) Stop Button
16. (TAPE 2) Play Button
17. (TAPE 2) Rewind Button
18. (TAPE 2) Fast Forward Button

● Common section
19. Equalizer Mode Selector Button
20. Function Selector Buttons
21. On/Stand-by Button
22. Extra Bass Button
23. Volume Up/Down Buttons

> • Unplug the AC power lead from the AC socket before connecting or disconnecting any component.
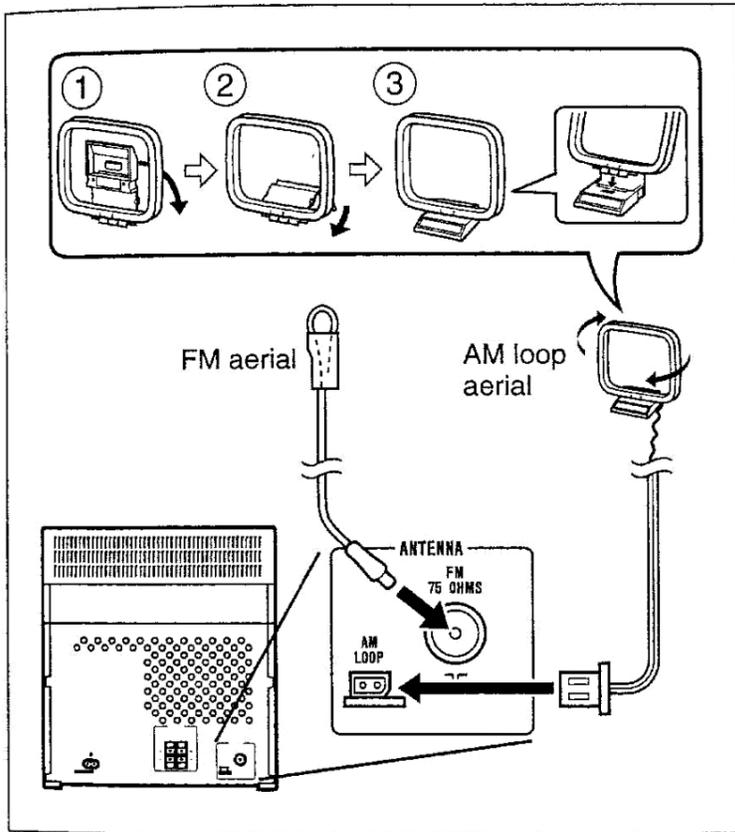
■ Aerial connection

Supplied FM aerial
Connect the FM aerial wire to the FM 75 OHMS socket and position the FM aerial wire in the direction where the strongest signal can be received.

Supplied AM loop aerial
Connect the AM loop aerial to the AM LOOP socket. Position the AM loop aerial for optimum reception. Place the AM loop aerial on a shelf, etc., or attach it to a stand or a wall with screws (not supplied).
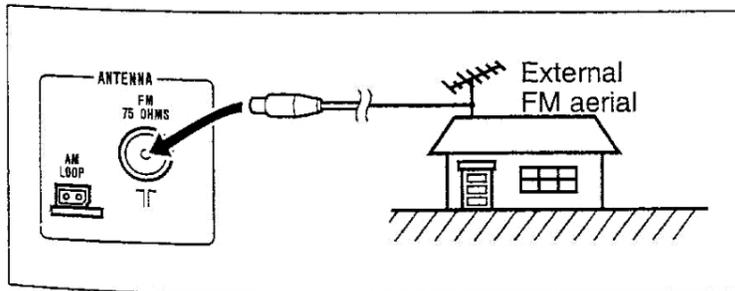
Notes:
• Do not place the aerial on the main unit as it may result in noise pickup from the internal digital electronics. Place the aerial away from the unit for better reception.
• If the AM loop aerial and the FM aerial wire are placed near the AC power lead, interference may result.

External FM aerial
Use an external FM aerial if you require better reception. Consult your dealer.
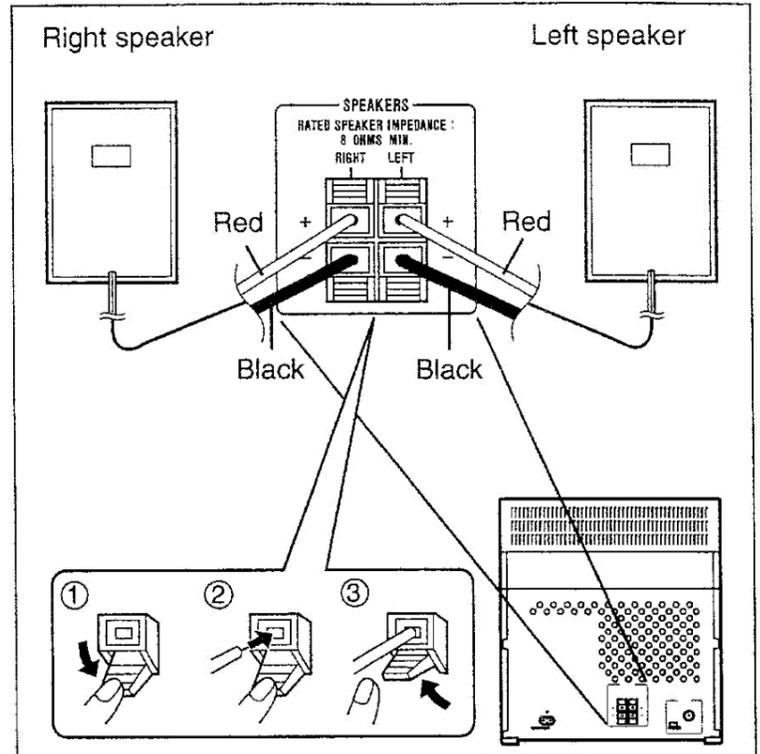
■ Speaker connection

Connect each speaker wire to the SPEAKER terminals as shown.
Use speakers with an impedance of 8 ohms or more, as lower impedance speakers can damage the unit.
• Connect the black wire to the minus (-) terminal, and the red wire to the plus (+) terminal.

Caution:
• Do not mistake the right channel for the left channel when connecting the speakers to the unit. The right speaker is the one on the right side when you are facing the front of the unit.
• Do not let bare speaker wires touch each other as this may damage the amplifier and/or speakers.
• Do not allow any objects to fall into or to be placed in the bass reflex ducts.
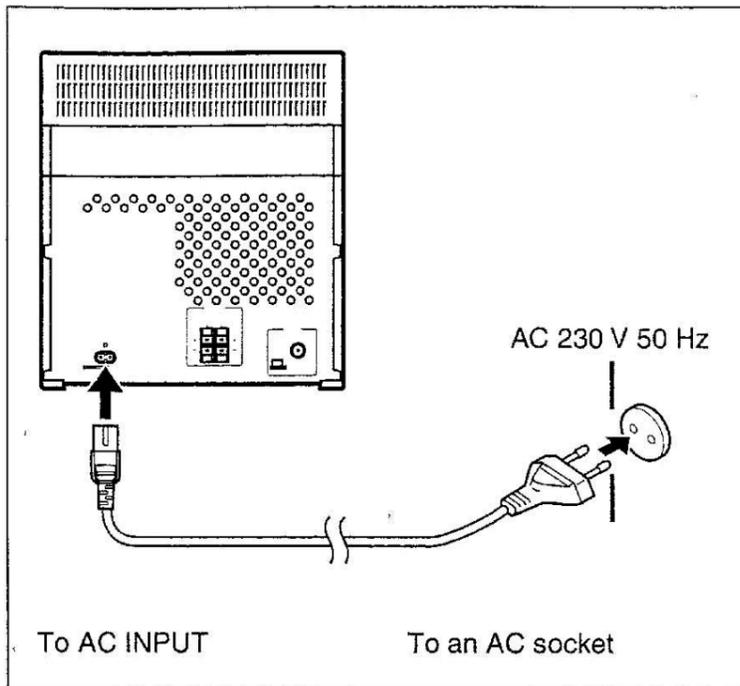• Do not stand or sit on the speakers. If the speakers fall or collapse, you may be injured.

Note:
• The speaker grille is not removable.

■ Connecting the AC power lead

Connect the AC power lead to the AC INPUT socket, then connect the AC power lead plug to an AC socket.

AC 230 V 50 Hz

To AC INPUT   To an AC socket

Notes:
- Unplug the AC power lead from the AC socket if the unit will not be in use for a prolonged period of time.
- Never use a power lead other than the one supplied. Use of a power lead other than the one supplied may cause an electric shock or fire.

■ Demo mode

When the AC power lead is first connected, the unit will enter the demonstration mode.
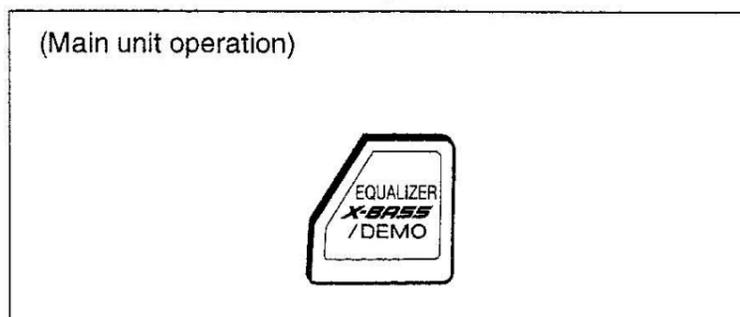
To cancel the demonstration mode:
When the unit is in the stand-by mode (demonstration mode), press the EQUALIZER/X-BASS/DEMO button.
- The demonstration mode will be cancelled and the unit will enter the low power consumption mode.

To return to the demonstration mode:
When the unit is in the stand-by mode, press the EQUALIZER/X-BASS/DEMO button again.
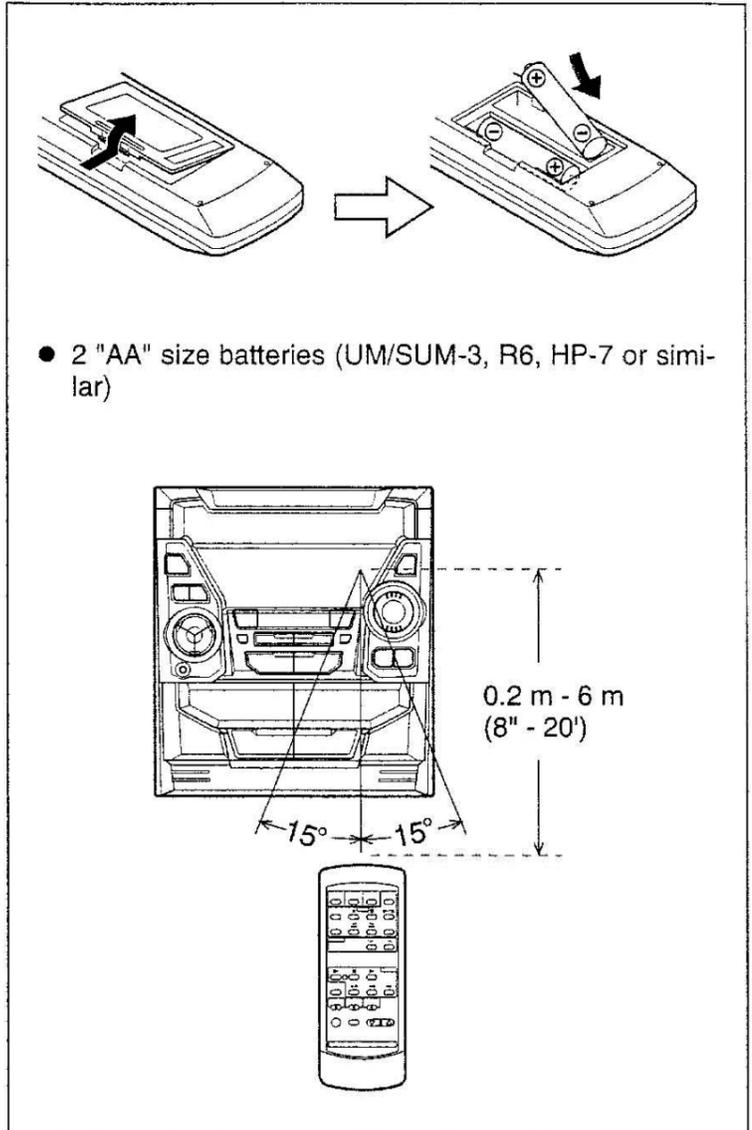
(Main unit operation)

EQUALIZER
X-BASS
/DEMO

Notes:
- When the unit is in the low power consumption mode, the display will disappear.
- When the power is on, the EQUALIZER/X-BASS/DEMO button can be used to select the extra bass mode.

■ Remote control

- When inserting or removing the batteries, push them towards the ⊖ battery terminals.
- Installing the batteries incorrectly may cause the unit to malfunction.

- 2 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar)

0.2 m - 6 m
(8" - 20')

15° 15°

Precautions for battery use:
- Insert the batteries according to the direction indicated in the battery compartment.
- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if they are weak or if the unit will not be used for long periods of time. This will prevent potential damage due to battery leakage.

Caution:
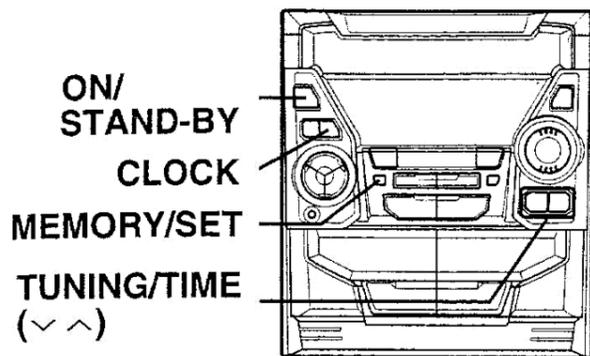Do not use rechargeable batteries (nickel-cadmium battery, etc.).

Notes concerning use:
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic.
- Periodically clean the transmitter LED on the remote control and the sensor on the main unit with a soft cloth.
- Exposing the sensor on the main unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, excessive heat, shock, and vibrations.

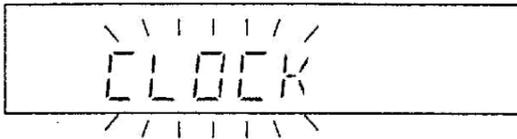In this example, the clock is set for the 24-hour (0:00) system.

(Main unit operation)

ON/
STAND-BY
CLOCK
MEMORY/SET
TUNING/TIME
(∨ ∧)

1 Press the ON/STAND-BY button to enter the stand-by mode.

2 Press the CLOCK button.
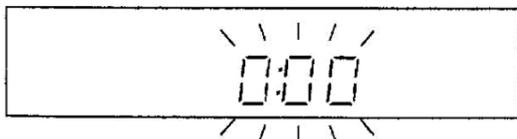
    CLOCK

3 Within 5 seconds, press the MEMORY/SET button.

    0:00

4 Press the TUNING/TIME (∨ or ∧) button to select the time display mode.

    0:00

0:00 ←→ AM 0:00 ←→ AM 12:00
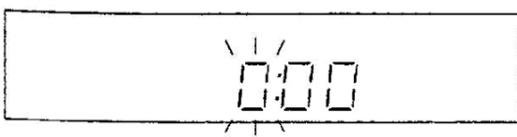
"0:00"   →   The 24-hour display will appear.
                (0:00 - 23:59)

"AM 0:00"   →   The 12-hour display will appear.
                (AM 0:00 - PM 11:59)

"AM 12:00" →   The 12-hour display will appear.
                (AM 12:00 - PM 11:59)

● Note that this can only be set when the unit is first installed or it has been reset (see page 21).
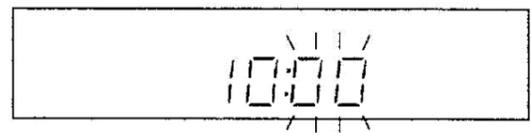
5 Press the MEMORY/SET button.

    0:00

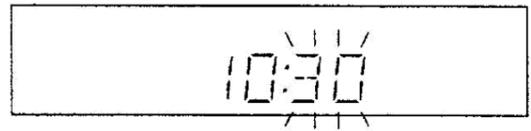**6** Press the TUNING/TIME (∨ or ∧) button to adjust the hour.

    10:00

● Press the TUNING/TIME (∨ or ∧) button once to advance the time by 1 hour. Hold it down to advance continuously.
● When the 12-hour display is selected, "AM" will change automatically to "PM".

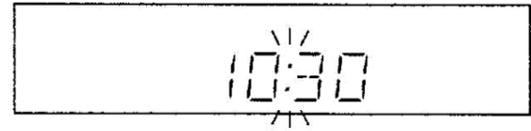**7** Press the MEMORY/SET button.

    10:00

8 Press the TUNING/TIME (∨ or ∧) button to adjust the minutes.

    10:30

● Press the TUNING/TIME (∨ or ∧) button once to advance the time by 1 minute. Hold it down to change the time in 5 - minute intervals.
● The hour setting will not advance even if minutes advance from "59" to "00".

9 Press the MEMORY/SET button.

    10:30

● The clock starts operating from "0" second. (Seconds are not displayed.) And then the clock display will disappear after a few seconds.

To see the time display:
Press the CLOCK button.
● The time display will appear for about 5 seconds.

Note:
● The clock display will flash on and off at the push of the CLOCK button when the AC power supply is restored after a power failure occurs or after the AC power lead is disconnected. If this happens, follow the procedure below to change the clock time.

To change the clock time:
1 Press the CLOCK button.
2 Within 5 seconds, press the MEMORY/SET button.
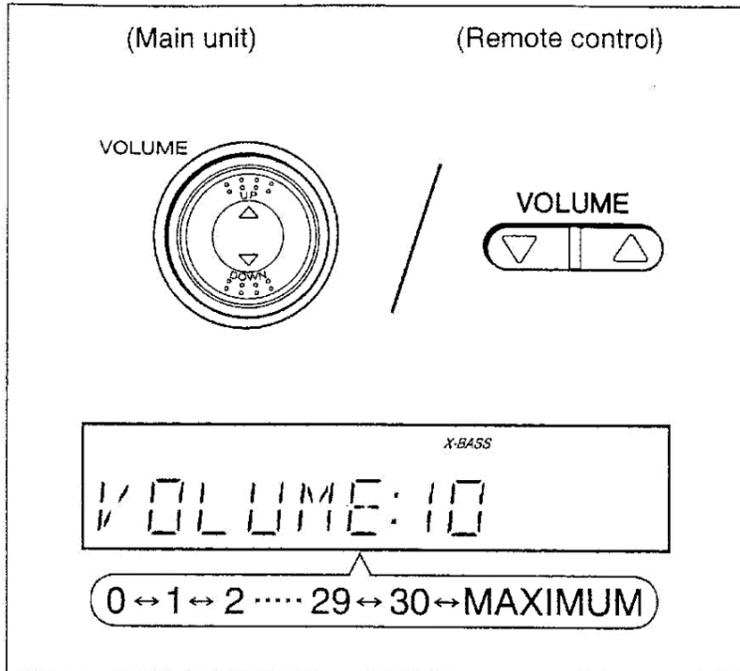3 Perform steps 6 - 9 above.

To change the time display mode:
1 Perform steps 1 - 2 in "RESETTING THE MICROCOMPUTER", on page 21.
2 Perform steps 1 - 9 above.

SOUND CONTROL

■ Volume

Press the VOLUME △ button to increase the volume and the VOLUME ▽ button to decrease the volume.
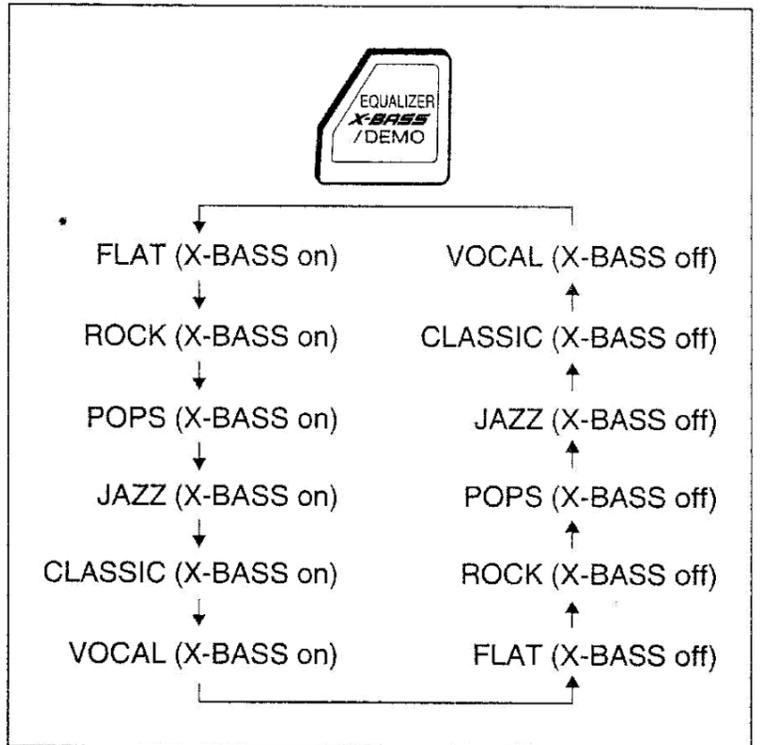

■ Extra bass (X-BASS)/Pre-programmed equalizer

(Main unit operation)
You can select the extra bass and pre-programmed equalizer modes with the same button on the main unit.

Changing the mode:
When the EQUALIZER/X-BASS/DEMO button is pressed, the current mode setting will be displayed. To change to a different mode, press the EQUALIZER/X-BASS/DEMO button.
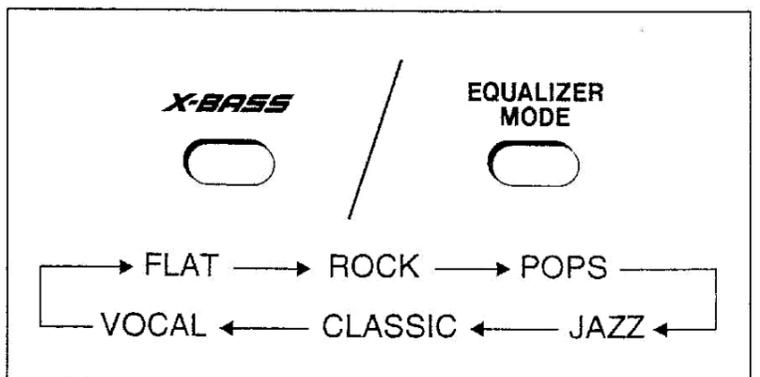

(Remote control operation)
To enter or cancel the extra bass mode:
When the power is first turned on, the unit will enter the extra bass mode which emphasises the bass frequencies, and "X-BASS" will appear. To cancel the extra bass mode, press the X-BASS button. "X-BASS" will disappear.

Selecting a pre-programmed equalizer mode:
When the EQUALIZER MODE button is pressed, the current mode setting will be displayed. To change to a different mode, press the EQUALIZER MODE button repeatedly.

FLAT: The sound is not modified.
ROCK: Bass and treble are emphasised.
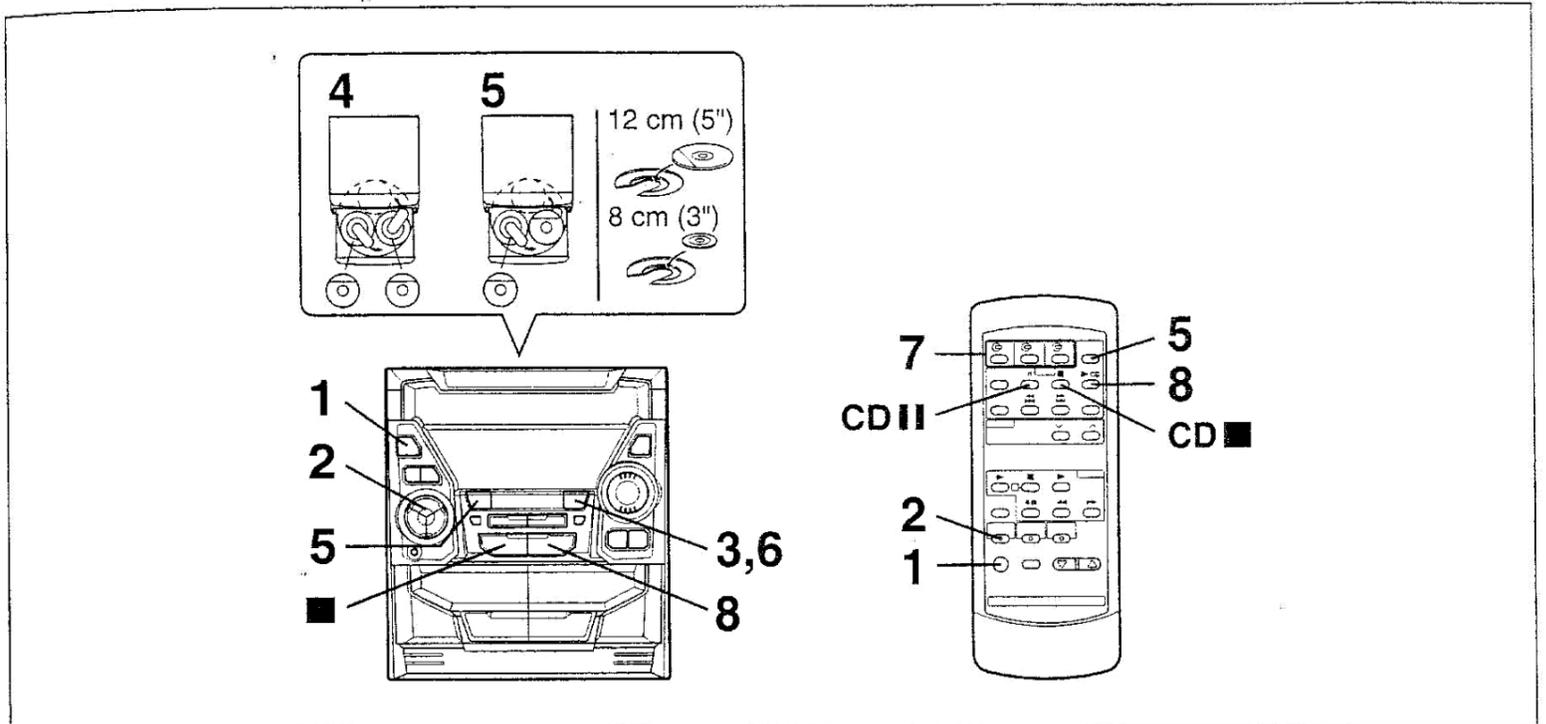**POPS:** Bass and treble are slightly emphasised.
JAZZ: Treble is cut a little.
CLASSIC: Treble is reduced a lot.
VOCAL: Vocals (midrange tones) are emphasised.

■ CD playback

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CD button.

3 Press the OPEN/CLOSE button to open the disc tray.

4 Place the CD(s) on the disc tray, label side up.

● CDs can be placed on any open position on the disc tray.
● Be sure to place 8 cm (3") CD(s) in the middle of the disc trays.

Caution:
Do not stack CDs in the tray. This can damage the player and the CDs.

5 When loading a third disc, press the DISC SKIP button to turn the disc tray, then place the CD in the open position.

6 Press the OPEN/CLOSE button to close the disc tray.
● The total number of tracks and the total playing time for one disc will be displayed. At this time, the disc number indicator is flashing.

7 Press the desired disc number button (© 1 - © 3).

8 Press the ► / ⊂ (► ⊂) button.

● Playback will begin from track 1 on the disc you have selected to play.
● After the disc finishes playing, the next disc will automatically play.
● When there is no CD in one of the disc 1 - 3 positions, that position will be skipped and the next CD will be played.
● When the last track on the third disc has finished playing, the unit will stop automatically.

To interrupt playback:
1 Press the CD **II** button on the remote control.
● "**II**" will appear.
2 Press the ► ⊂ button to resume playback from the same point.

To stop playback:
Press the ■ (CD ■) button.

To remove the CDs:
Whilst in the stop mode, press the OPEN/CLOSE button.
● The disc tray will open. Remove the two discs. Then, press the DISC SKIP button to rotate the disc tray and remove the remaining disc.
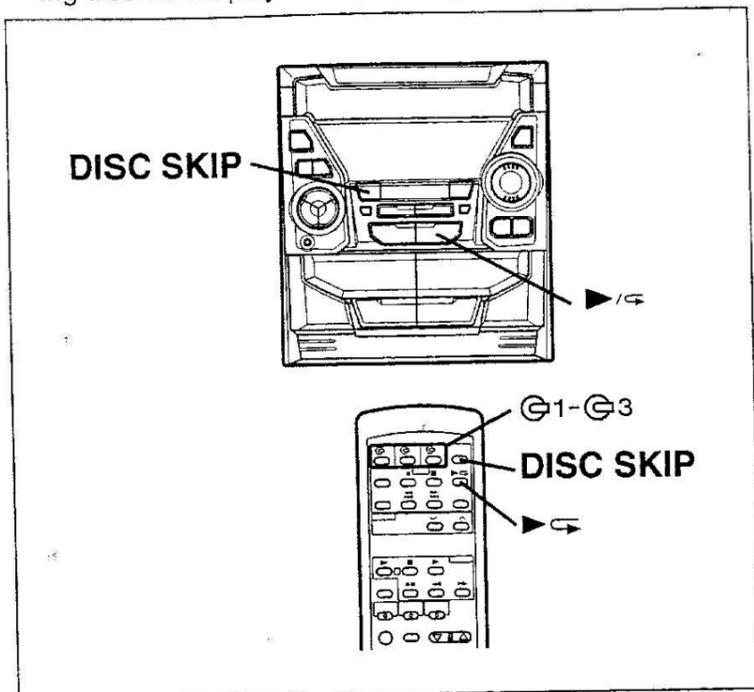
After use:
Press the ON/STAND-BY button to enter the stand-by mode.

■ Disc number selection

1 When stopped, press the DISC SKIP button.

2 Press the ► / ⊏ (► ⊏) button.
- The next disc playback will begin, after which each following disc will be played sequentially.
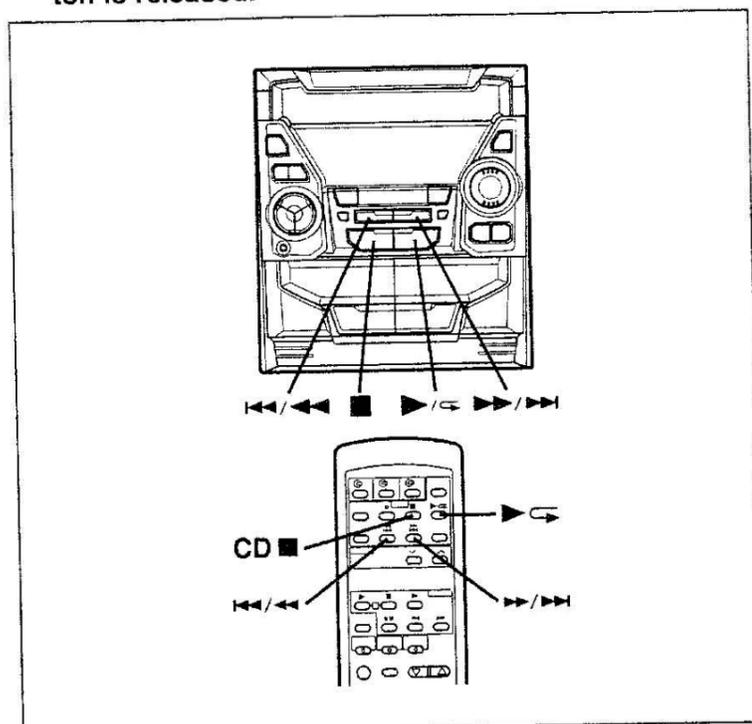

Notes:
- When the DISC SKIP button is pressed during playback, playback will begin automatically from the next disc. (It is not necessary to press the ► / ⊏ (► ⊏) button.)
- When one of the disc number buttons (⊚ 1 - ⊚ 3) is pressed during playback, playback of the selected disc will begin automatically. (It is not necessary to press the ► / ⊏ (► ⊏) button.)

■ Cue and review

1 Load a disc and begin playback.

2 Hold down the ►► button for audible fast forward, and hold down the ◄◄ button for audible fast reverse.

3 Normal playback will resume when the ◄◄ or ►► button is released.

Notes:
- When the end of the disc is reached whilst cueing, "END" will appear in the display and CD operation will be paused. (Even though the next disc has been loaded, the disc will not be switched.) Press the ◄◄ button for fast reverse or press the ■ (CD ■) button to stop CD operation.
- If the beginning of the disc is reached whilst reviewing, the mode will automatically switch to normal playback at that point.

■ APSS (Auto Program Search System)

APSS automatically locates the beginning of any track.

To listen again to the track being played:
Press the I◄◄ button for less than 0.5 seconds during playback.

To move to the beginning of the next track:
Press the ►►I button for less than 0.5 seconds during playback.

- To skip a number of tracks at one time, press the I◄◄ or ►►I button repeatedly until the desired track number is shown.
- To start playback from a desired track, press the I◄◄ or ►►I button whilst in the stop mode to select the track number, and then press the ► / ⊏ (► ⊏) button.
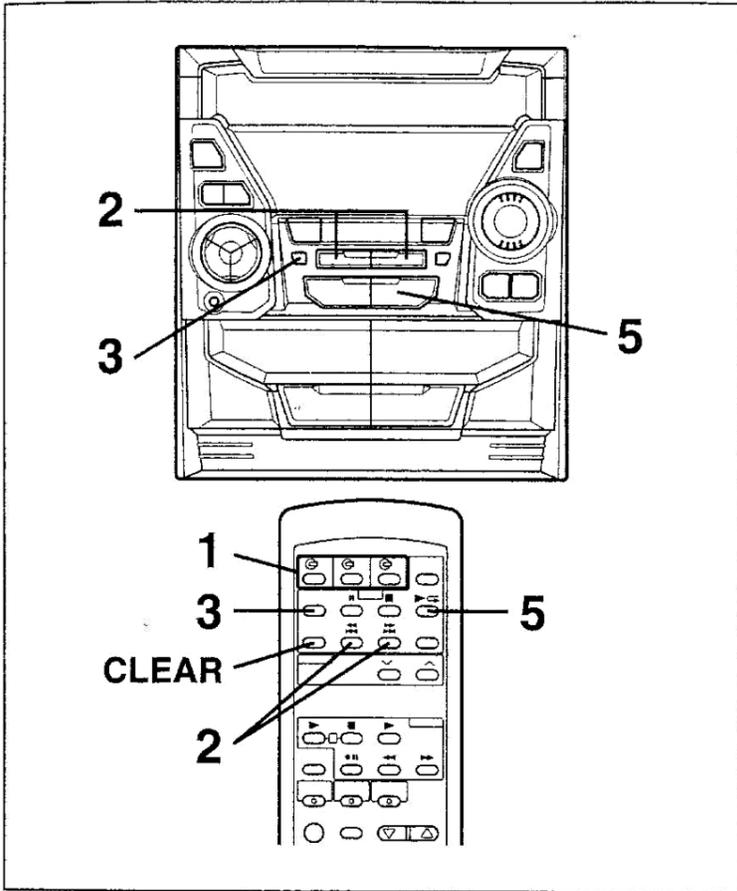
Note:
- APSS can only search for music on a single disc.

Left margin fragments:

forward,
ible fast

·r ►► but-

ng, "END"
>n will be
>aded, the
>n for fast
CD opera-

reviewing,
layback at

·m)

track.

uring play-

uring play-

the I◄◄ or
number is

the I◄◄ or
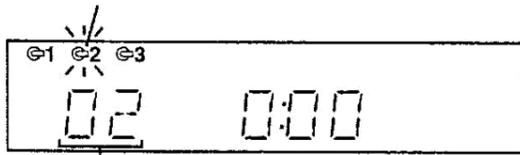t the track
1.

sc.

■ APMS (Automatic Programmable Music Selector)

You can playback the tracks on the CDs in the disc 1 - 3 positions in any order. By specifying the disc numbers from 1 to 3, and the track numbers from 1 to 99, you can choose up to 32 selections for playback in the order you like.
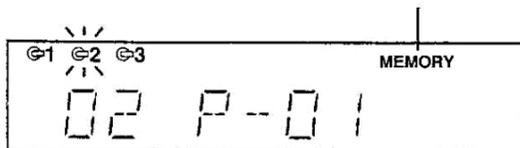

1 When in the stop mode, use the disc number buttons (☺1 - ☺3) to select the desired disc number.

2 Press the I◄◄ or ►►I button to select the desired track.
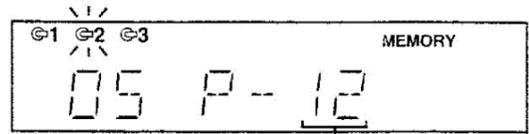
Selected disc number

Selected track number

3 Press the MEMORY/SET (MEMORY) button.

● "MEMORY" will appear to show that the programmed sequence is being entered into memory.

4 Repeat steps 1 - 3 for any other tracks. Up to 32 tracks can be programmed.

Total number of tracks

● If you make a mistake whilst in the programming mode ("MEMORY" will appear) or if you wish to change your selections, the programmed tracks can be cleared by pressing the CLEAR button on the remote control. The tracks will be cleared sequentially, starting with the last track entered.

5 Press the ► / ⊂ (► ⊂) button to start playback of programmed selections.

To clear the programmed selections:
Press the CLEAR button on the remote control whilst the disc is stopped.
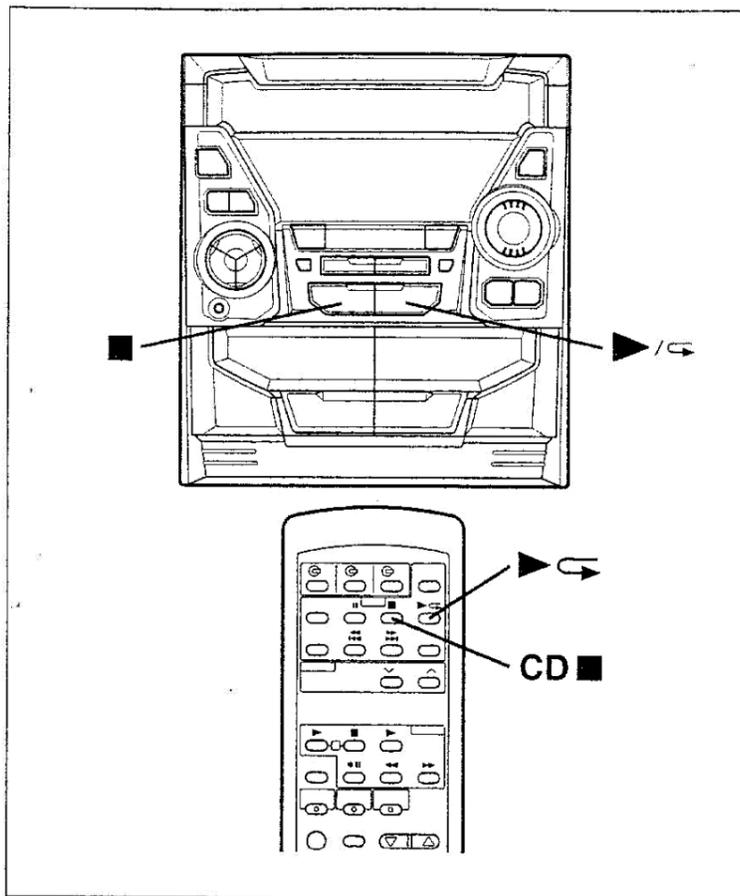● Each time the button is pressed, one track will be cleared, beginning with the last track programmed.

Notes:
● Opening the disc tray automatically cancels the programmed sequence.
● Even if you press the ON/STAND-BY button to enter the stand-by mode or the function is changed from CD to some other function, the programmed selections will not be cleared.
● During APMS operation, random play is not possible.

(Continued)

■ Repeat play

All tracks on up to 3 discs, or a programmed sequence can be continuously repeated.
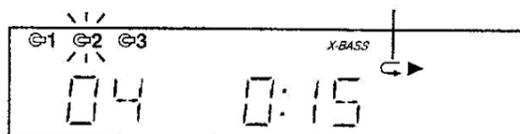

To repeat all tracks on up to 3 discs:
Press the ► / ⊂ (► ⊂) button twice.
● "⊂" will appear.

Repeat play indicator

To repeat a programmed sequence:

1 Programme a sequence of up to 32 tracks.

2 Press the ► / ⊂ (► ⊂) button twice.
● "⊂" will appear.

To cancel repeat play:
Press the ► / ⊂ (► ⊂) button again.
● "⊂" will go out.

Note:
● When using repeat play, be sure to press the ■ (CD ■) button after you are through listening. Otherwise, the CD(s) will play continuously.
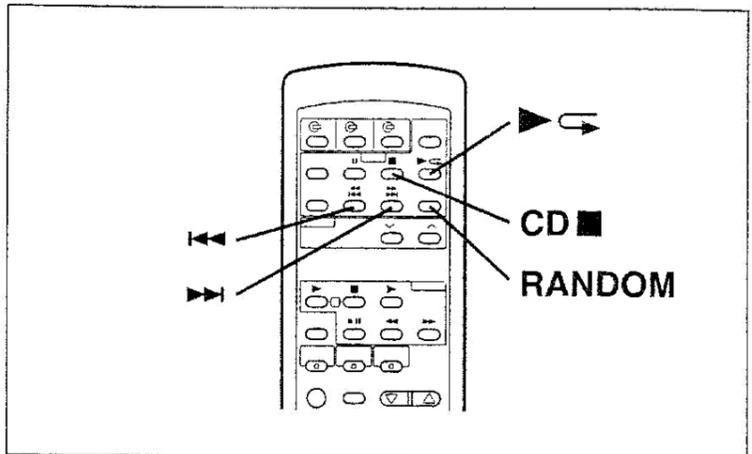
■ Random play

(Remote control operation)
The tracks on the disc(s) can be played in random order automatically.

1 Load a disc(s) and close the disc tray.

2 Press the RANDOM button to begin random play.
● "R" will appear.

Notes:
● If you press the ►►I button during random play, you can move to the next track. On the other hand, the I◄◄ button does not allow you to move to the previous track. The beginning of the track being played will be located.
● When using random play, be sure to press the ■ (CD ■) button after you are through listening. Otherwise, the disc(s) will play continuously.
● In random play, the unit will select and play tracks automatically. (You cannot select the order of the tracks.)

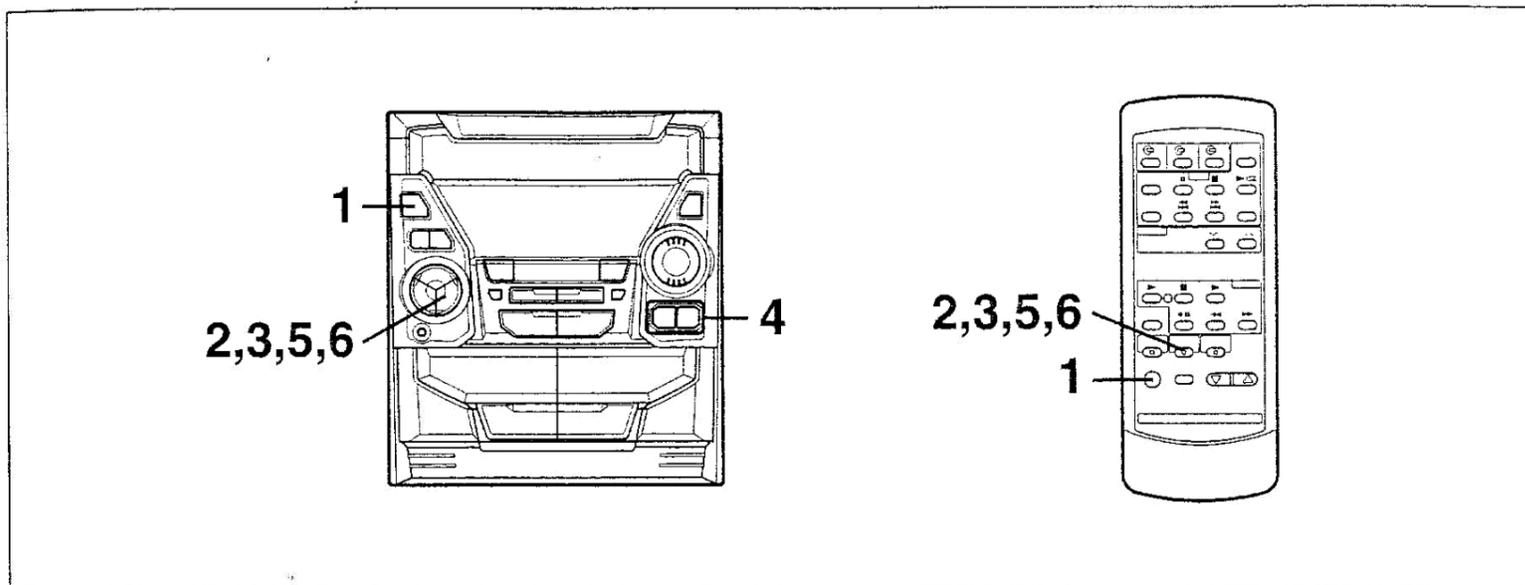**To cancel random play:**
Press the ► / ⊂ (► ⊂) button.
● "R" will go out.

Caution:

● **Do not carry the unit with discs left in the disc tray. The discs may come loose inside the unit and they may be damaged or cause damage to the unit. This may also cause malfunctions.**

● Do not place two CDs in one disc position.

● Do not push the disc tray whilst it is moving.

● Do not turn the disc tray by hand. This may cause malfunctions.

● If the power fails whilst the tray is open, wait until the power is restored.

● If the disc tray is stopped forcibly, "ERR" will appear in the display and the unit will not function. If this occurs, press the ON/STAND-BY button to enter the stand-by mode and then turn the power on again.

● If TV or radio interference occurs during CD operation, move the unit away from the TV or radio.

● If a disc is damaged, dirty, or loaded upside down, the disc will be skipped and the next disc will automatically play.

■ Tuning

1 Press the ON/STAND-BY button to turn the power on.

2 Press the TUNER (BAND) button.

3 Press the TUNER (BAND) button to select the desired frequency band (FM ST, FM or AM).

4 Press the TUNING (∨ or ∧) button to tune into the desired station.

Manual tuning:
Press the TUNING/TIME (∨ or ∧) button as many times as required to adjust the frequency shown on the display to the frequency of the desired station.

Auto tuning:
When the TUNING/TIME (∨ or ∧) button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

Notes:
● When radio interference occurs during auto scan tuning, auto scan tuning may stop automatically at that point.
● If a weak station signal is found during auto scan tuning, the station will be skipped.
● To stop the auto tuning, press the TUNING/TIME (∨ or ∧) button again.

5 To receive an FM stereo transmission, press the TUNER (BAND) button so that the "ST" indicator on the display lights up.
● "∞" will appear when an FM broadcast is in stereo.

6 If the FM reception is weak, press the TUNER (BAND) button so that the "ST" indicator goes out.
● The reception changes to monaural, the sound becomes clearer.

After use:
Press the ON/STAND-BY button to enter the stand-by mode.

Note:
● The last station tuned in will be recalled, even after changing the tuning band or the function, or after switching the unit to the stand-by mode.
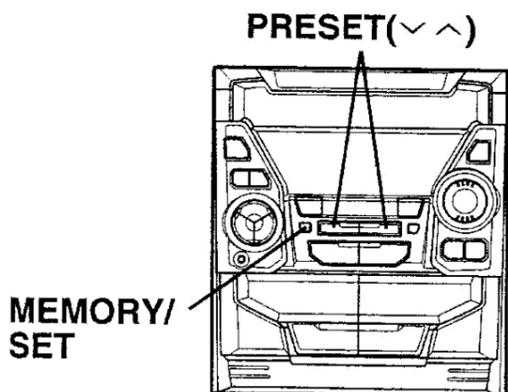
■ Preset tuning

You can store up to 40 stations in memory (40 stations consisting of any combination of FM and AM stations) and recall them at the push of a button.

To enter stations into memory:

1 Perform steps 1 - 6 in the "Tuning" section.

2 Press the MEMORY/SET button.
● "MEMORY" and the preset channel number will flash.

3 Within 30 seconds, press the PRESET (∨ or ∧) button to make the preset channel number flash in the display.
● Store the stations in memory, in order, starting with preset channel 1.

4 Within 30 seconds, press the MEMORY/SET button to store that station in the selected station preset number memory.
● If the "MEMORY" and preset number indicators go out before the station is memorised, repeat the operation from step 2.

5 Repeat steps 1 - 4 to set other preset stations, or to change a preset station.
● When a new station is stored in the selected station preset number memory, the contents previously memorised will be erased.

(Main unit operation)

PRESET(∨ ∧)

MEMORY/ SET

To recall a memorised station:
Press the PRESET (∨ or ∧) button for less than 0.5 seconds to select the desired station.
● The stations (preset channel number, frequency and frequency band) which have been stored in memory will appear in the display in numerical order, irrespective of the frequency bands.

Note:
When searching for a memorised station, do not press the PRESET button for more than 0.5 seconds. When the PRESET button is pressed for more than 0.5 seconds, the unit will enter the preset memory scan mode.
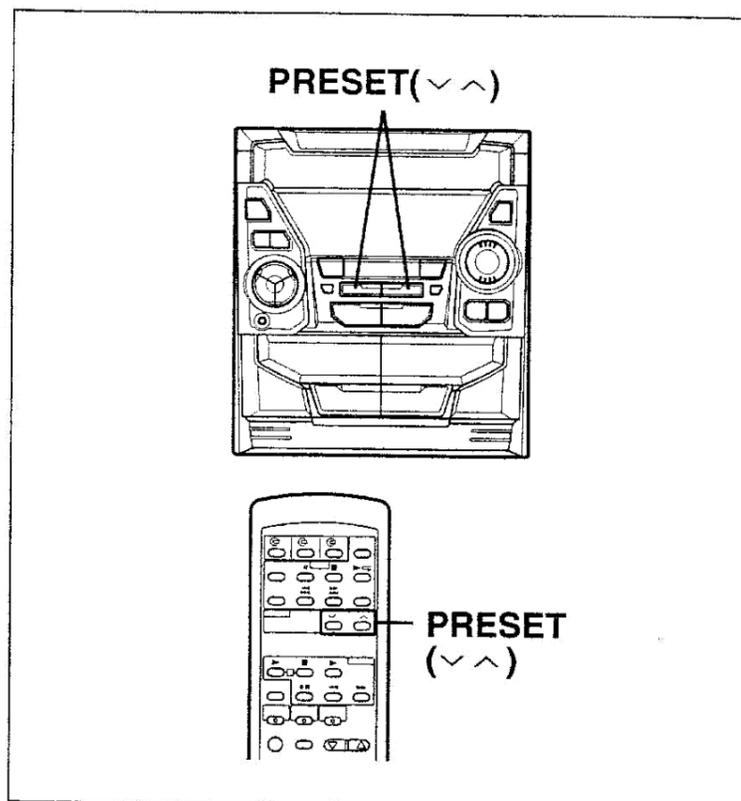
Backup function:
The backup function protects all station presets for a few hours should there be a power failure or the AC power lead is removed from the AC socket.

■ Preset memory scan

The stations saved in the preset memory can be scanned automatically.

1 To scan the preset stations, press the PRESET (∨ or ∧) button for more than 0.5 seconds.
● The station preset number will flash and the programmed stations will be tuned in sequentially, for 5 seconds each.

2 Press the PRESET (∨ or ∧) button again to stop the memory scan at the desired station.

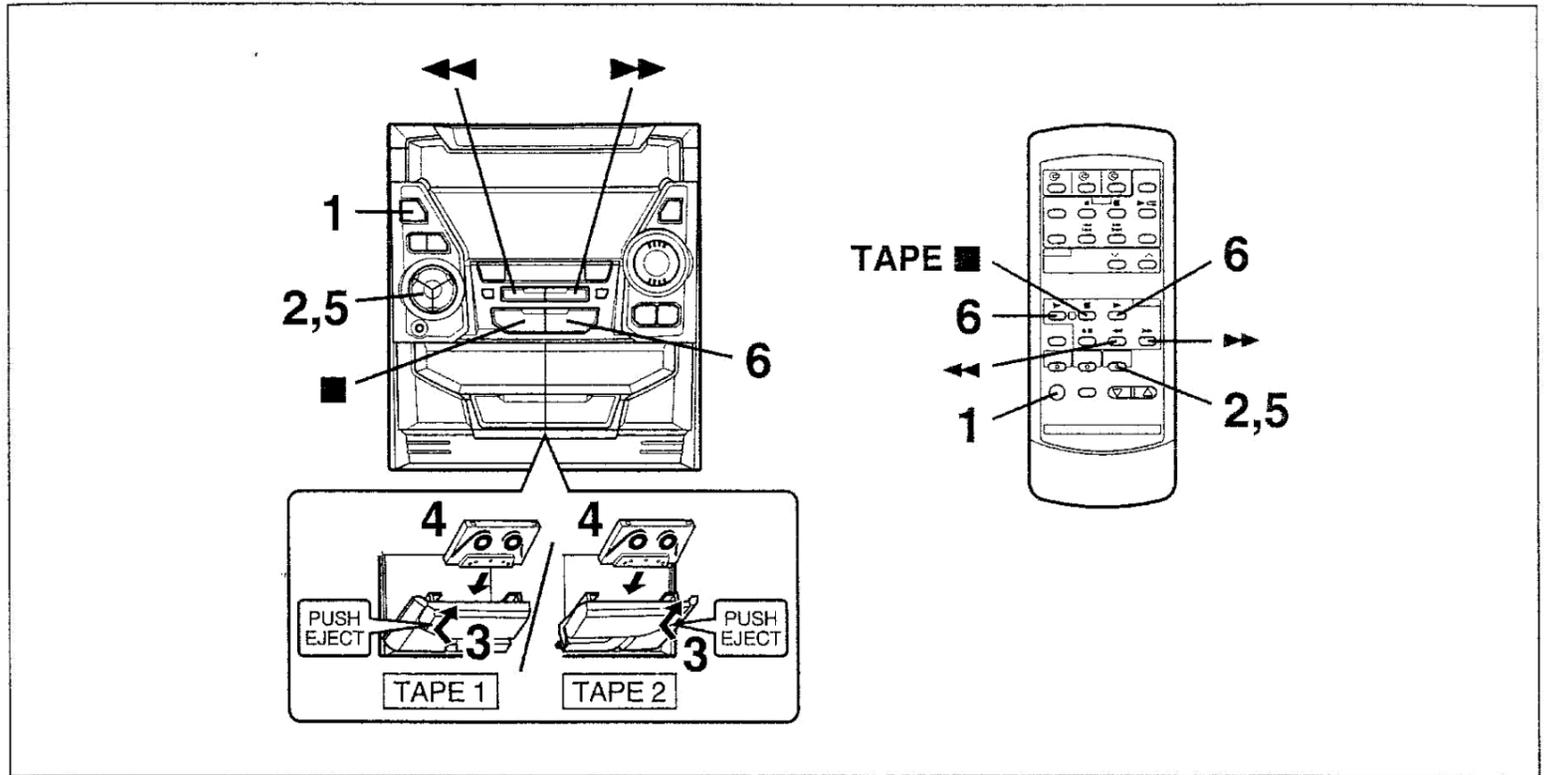
PRESET(∨ ∧)

PRESET (∨ ∧)

Note:
When the preset memory does not have any stations stored in it, the preset memory scan will not function.

To erase all the contents in the preset memory:

1 Press the ON/STAND-BY button to enter the standby mode.

2 Press the ON/STAND-BY button whilst holding down the TUNER (BAND) button and the EQUALIZER/X-BASS/DEMO button.
● "TUNER CL" will appear.
● After performing this operation, all of the preset memory information will be erased.

■ TAPE 1 or TAPE 2 playback

1 Press the ON/STAND-BY button to turn the power on.

2 Press the TAPE (1 ~ 2) button.

3 Open the cassette door by pushing the area marked "PUSH EJECT".

4 Load the cassette into the TAPE 1 or TAPE 2 cassette compartment.

5 With cassettes in both decks, press the TAPE (1 ~ 2) button to switch operation from one deck to the other.

6 Press the ► / ⊏ button to start playback.
● When playback is performed using the remote control, press the TAPE 1 or TAPE 2 ► button.

To stop playback:
Press the ■ (TAPE ■) button.

Fast forward/rewind: (TAPE 2 only)
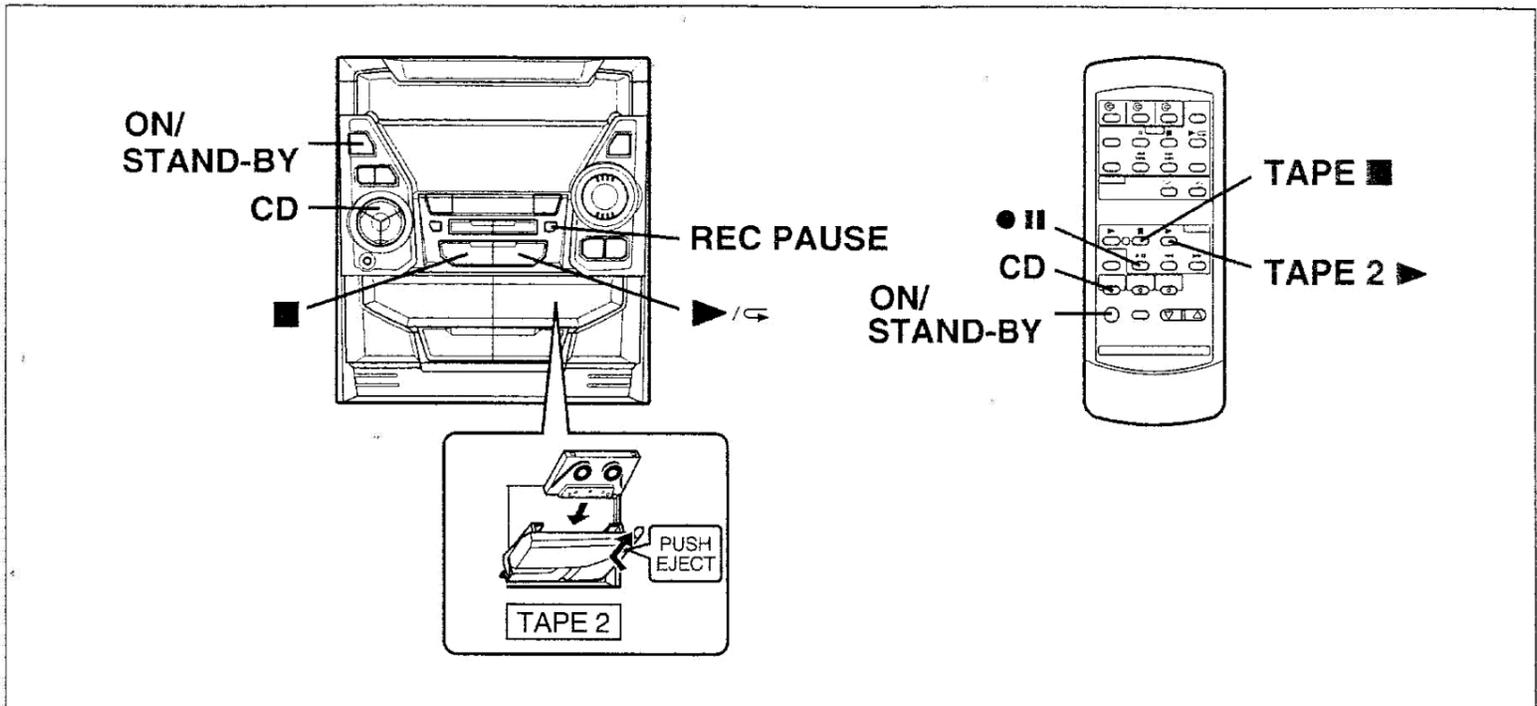1 Press the ■ (TAPE ■) button, then press the TAPE (1 ~ 2) button to select TAPE 2.
2 To advance the tape, press the ►► button. To rewind it, press the ◄◄ button.

Caution:
● To remove the cassette tape, press the ■ (TAPE ■) button, and then open the cassette compartment.
● Before changing from one tape operation to another, press the ■ (TAPE ■) button.
● If a power failure occurs during tape operation, the tape head will remain engaged with the tape and the cassette door will not open. In this case, wait until power is restored.

RECORDING

- When recording important selections, be sure to make a preliminary test to ensure that the desired material is being properly recorded.

- The volume and sound quality can be adjusted with no effect on the recorded signal (Variable Sound Monitor).

- Metal and CrO_2 tapes should not be used for recording or dubbing.

■ Recording from the built-in CD player (CD Synchronised Recording System)

1 Press the ON/STAND-BY button to turn the power on.

2 Load a cassette into the TAPE 2 cassette compartment.

3 Press the CD button and load the desired disc.
- Use the APMS function to store the tracks you want to record in memory. (See page 11.)

4 Press the REC PAUSE (●II) button.
- "SYNC" and "REC" will flash.

5 Press the ►/◁ (TAPE 2 ►) button.
- "SYNC" will disappear and "REC" will light up.
- CD playback will start approximately 5 seconds after the tape starts.

To stop recording:
Press the ■ (CD ■) button.
The CD and tape will stop.

Note:
- When the end of the tape is reached whilst recording, the CD player will display the track number which was being played at that time, and stop automatically. If you want to restart recording from the beginning of the interrupted track, turn over the tape, press the REC PAUSE (●II) button and then the ►/◁ (TAPE 2 ►) button. (If tracks have been stored in memory using the APMS function, recording will restart from the first track stored in memory.)

■ Recording from the built-in radio

1 Press the ON/STAND-BY button to turn the power on.

2 Load a cassette into the TAPE 2 cassette compartment.

3 Tune in to the desired station (pages 13 - 14).

4 Press the REC PAUSE (●II) button.
- "REC" will flash.

5 Press the ►/◁ (TAPE 2 ►) button.
- "REC" will appear.

To interrupt recording:

1 Press the REC PAUSE (●II) button.
- "REC" will flash.

2 Press the ►/◁ (TAPE 2 ►) button to resume recording.
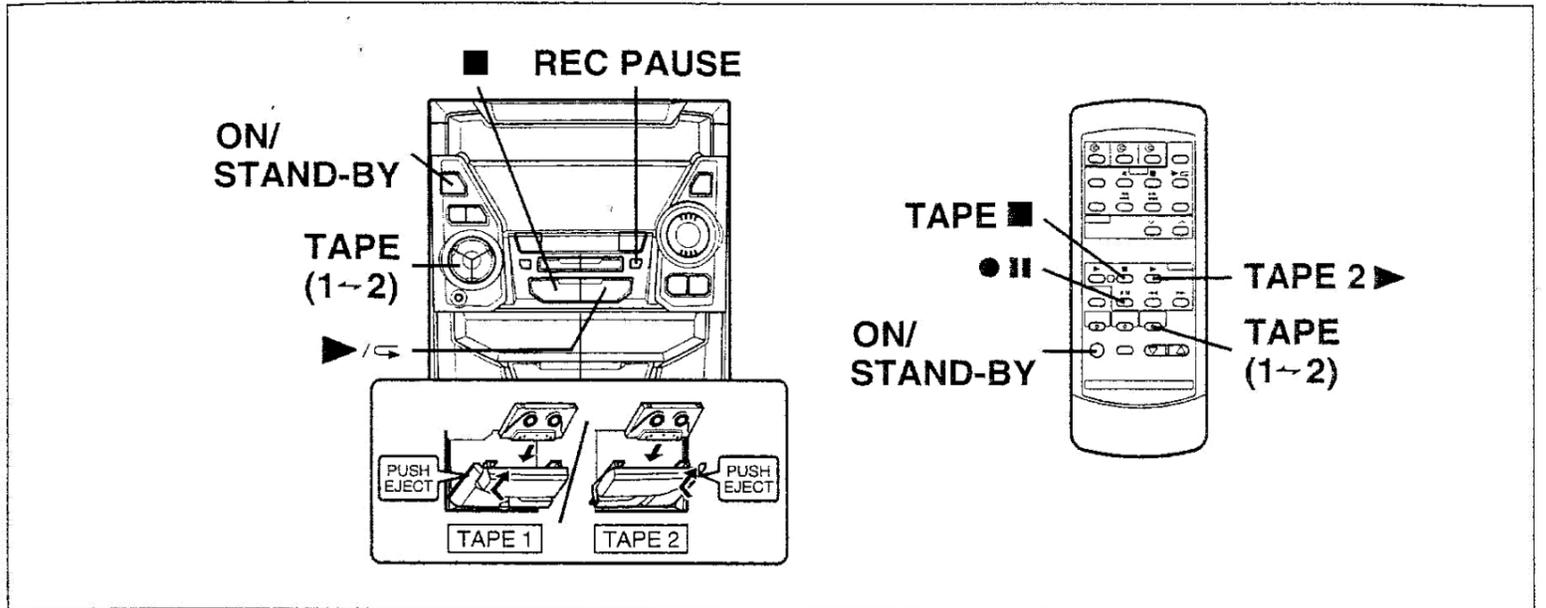- "REC" will appear.

To stop recording:
Press the ■ (TAPE ■) button.

Note:
- If a whistling noise is heard whilst recording from an AM station, move the AM loop aerial to a position where noise is no longer heard from the unit.

■ **REC PAUSE**

ON/ STAND-BY

TAPE (1~2)

►/⊊

PUSH EJECT | PUSH EJECT

TAPE 1 | TAPE 2

TAPE ■

● II

ON/ STAND-BY

TAPE 2 ►

TAPE (1~2)

■ Dubbing from tape to tape

1 Press the ON/STAND-BY button to turn the power on.

2 Load a prerecorded cassette into the TAPE 1 cassette compartment. Insert a blank tape into the TAPE 2 cassette compartment.

● It is recommended that the recording tape is the same length as the master tape.

3 Press the TAPE (1 ~ 2) button until "TAPE 1" appears in the display.

4 Press the REC PAUSE (●II) button.

5 Press the ►/ ⊊ (TAPE 2 ►) button.

To stop dubbing:
Press the ■ (TAPE ■) button.
● TAPE 1 and TAPE 2 will simultaneously stop.

■ Erasing recorded tapes

● Make sure that TAPE 1 is not in use.

1 Load the tape to be erased into the TAPE 2 cassette compartment.

2 Press the TAPE (1 ~ 2) button until "TAPE 2" appears in the display.

3 Press the REC PAUSE (●II) button.
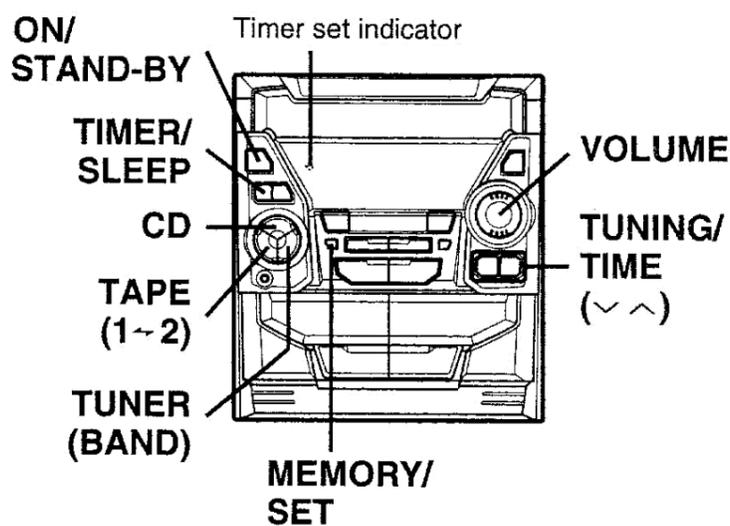
4 Press the ►/ ⊊ (TAPE 2 ►) button.

HOW TO USE THE BUILT-IN TIMER

■ Timer playback

The unit will turn on and play the selected source at the pre-set time.

● Before setting the timer, make sure that the clock setting is correct (page 7).
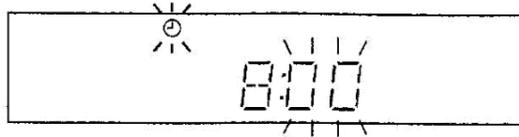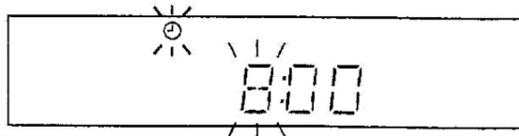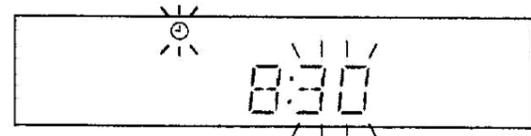
(Main unit operation)

ON/
STAND-BY

Timer set indicator

TIMER/
SLEEP

CD

TAPE
(1~2)

TUNER
(BAND)

MEMORY/
SET

VOLUME

TUNING/
TIME
(∨ ∧)

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CD, TUNER (BAND) or TAPE (1 ~ 2) button to select the desired function, and then adjust the sound volume using the VOLUME buttons.

3 Press the TIMER/SLEEP button repeatedly until "⊕" is displayed. At this point, make sure that "REC" is not lit.

● The timer set indicator will flash.

4 Press the TUNING/TIME (∨ or ∧) button to set the hour start time, then press the MEMORY/SET button.

5 Press the TUNING/TIME (∨ or ∧) button to set the minute start time, then press the MEMORY/SET button.

● The unit will enter the stand-by mode automatically, and the timer set indicator will light up.

6 When the preset time is reached, the timer playback will start.

● The volume will increase gradually.

7 If you select CD or TAPE, the unit will enter the stand-by mode after the playback. If you select TUNER, it will enter the stand-by mode one hour after the timer playback starts.
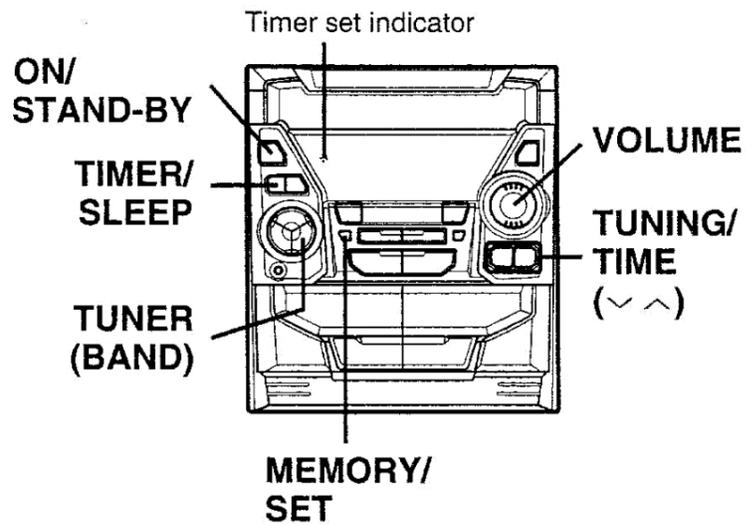
■ Timer recording

The unit will turn on and start recording from the radio at the preset time.

● Before setting the timer, make sure that the clock setting is correct (page 7).

(Main unit operation)

Timer set indicator

ON/
STAND-BY

TIMER/
SLEEP

TUNER
(BAND)

VOLUME

TUNING/
TIME
(∨ ∧)

MEMORY/
SET

1 **Press the ON/STAND-BY button to turn the power on.**
● Load a cassette for recording into the TAPE 2 cassette compartment.
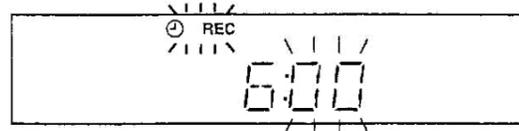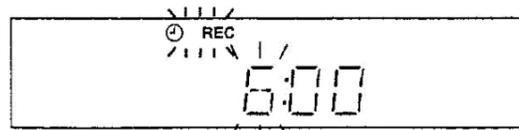
2 **Press the TUNER (BAND) button to select the desired frequency band, and then adjust the sound volume using the VOLUME buttons.**

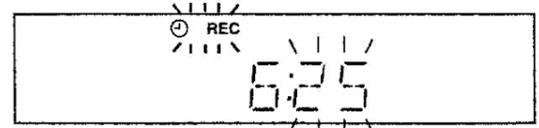**3** **Press the TIMER/SLEEP button repeatedly until "⊕" and "REC" are displayed.**

⊕ REC
0:00

● The timer set indicator will flash.

4 **Press the TUNING/TIME (∨ or ∧) button to set the hour start time, then press the MEMORY/SET button.**

⊕ REC
6:00

⊕ REC
6:00

5 **Press the TUNING/TIME (∨ or ∧) button to set the minute start time, then press the MEMORY/SET button.**

⊕ REC
6:25

● The unit will enter the stand-by mode automatically, and the timer set indicator will light up.

6 **When the preset time is reached, the timer recording will start.**
● The volume will increase gradually.

7 **When the recording tape reaches its end, the timer recording will end, and the unit will enter the stand-by mode.**

To cancel timer operation:
Press the ON/STAND-BY button to turn the power on.

To change the programmed contents:
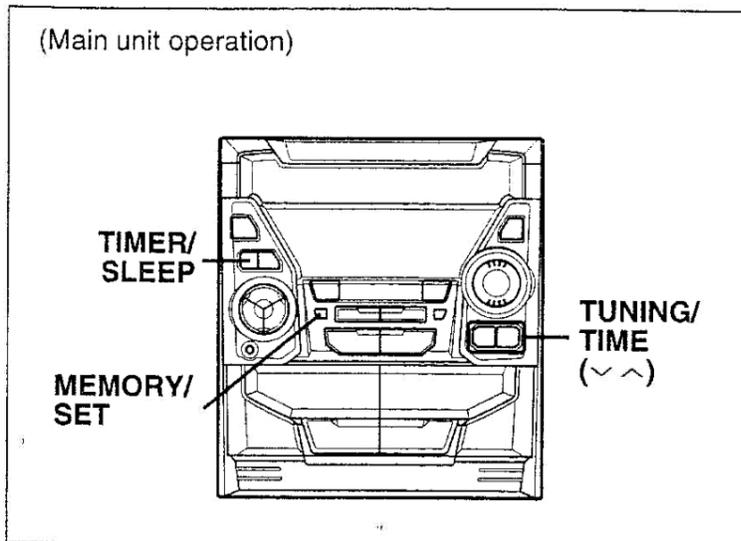Start again from step 1.

Note:
● Once the time is set, the setting will be retained until a new time is entered.
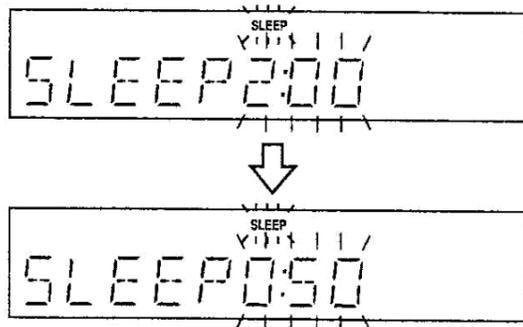
(Continued)

■ Sleep operation

The radio, compact disc and cassette deck can all be turned off automatically.

(Main unit operation)

1 Play back the desired sound source.

2 Press the TIMER/SLEEP button repeatedly until "SLEEP" is displayed.

To change the sleep time:
Whilst the sleep time is displayed, press the TUNING/TIME (∨ or ∧) button to adjust the time. (Maximum: 3 hours - Minimum: 1 minute) The amount of sleep time can also be changed during the sleep operation.

- 3 hours - 5 minutes → 5-minute intervals
- 5 minutes - 1 minute → 1-minute intervals

3 Press the MEMORY/SET button.

4 The unit will enter the stand-by mode automatically after the preset sleep time has elapsed.

Note:
- Once the sleep time is set, it will remain the same duration until the setting is changed.

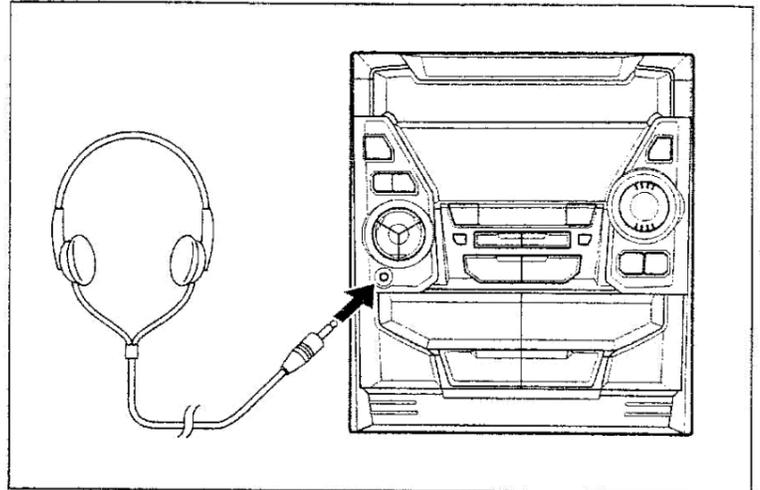**To confirm the remaining sleep time:**
Press the TIMER/SLEEP button.

To cancel the sleep operation:
Press the ON/STAND-BY button to enter the stand-by mode.
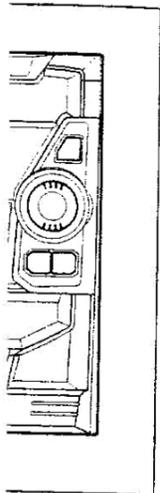
HEADPHONES

Before plugging in or unplugging the headphones, make sure the volume level is reduced.

Notes:
- Be sure your headphones have a 3.5 mm (1/8") diameter plug and are between 16 ohms and 50 ohms impedance. The recommended impedance is 32 ohms.
- When headphones are connected, the speakers are disabled automatically. Adjust the VOLUME buttons for the desired volume.
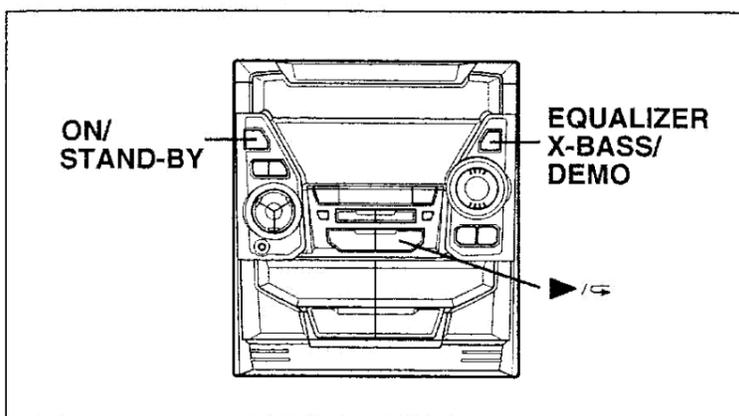
RESETTING THE MICROCOMPUTER

Reset the microcomputer under the following conditions:
- To erase all of the stored memory contents (clock and timer settings, and tuner and CD presets).
- If the display is not correct.
- If the operation is not correct.

1 Press the ON/STAND-BY button to enter the stand-by mode.

2 Whilst pressing down the ► / ⊆ button and the EQUALIZER/X-BASS/DEMO button, hold down the ON/STAND-BY button for at least 1 second.
- "CLEAR AL" will appear.

ON/STAND-BY

EQUALIZER X-BASS/DEMO

►/⊆

Caution:
- The operation explained above will erase all data stored in memory including clock and timer settings, and tuner and CD presets.

TRANSPORTING THE UNIT

Before you move this product to a new location, proceed as follows:

1 Press the ON/STAND-BY button to turn the power on.
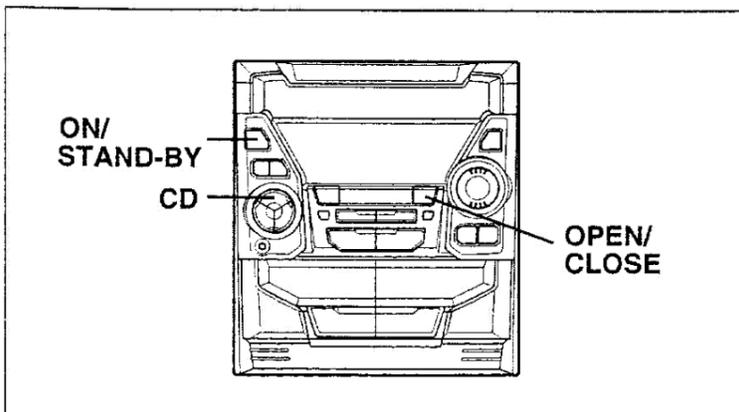
2 Press the CD button.

3 Press the OPEN/CLOSE button to open the disc tray.
- Remove all CDs inserted in the unit.

4 Press the OPEN/CLOSE button to close the disc tray.
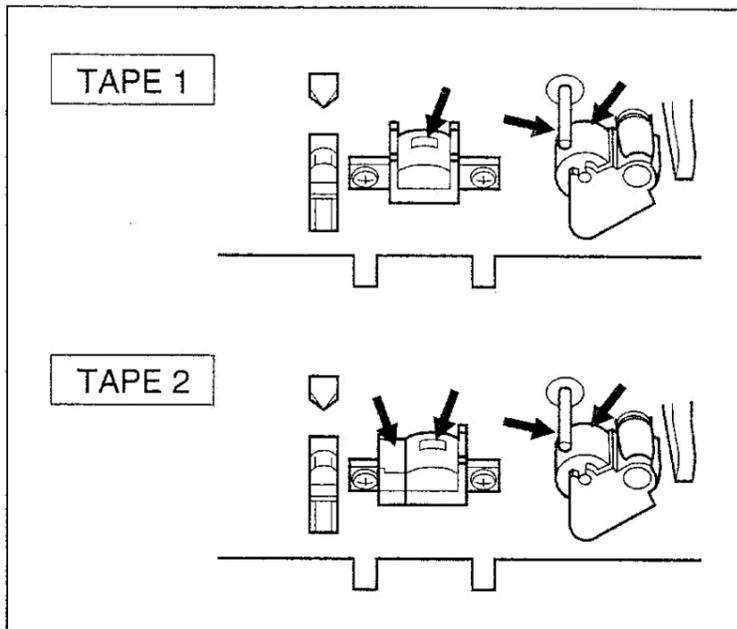- Make sure that "NO DISC" is displayed.

5 Press the ON/STAND-BY button to enter the stand-by mode, and then unplug the AC power lead from the AC socket.

ON/STAND-BY

CD

OPEN/CLOSE

MAINTENANCE

■ Internal care

- Dirty heads, capstans or pinch rollers can cause poor sound and tape jams. Clean these parts with a cotton swab moistened with commercial head/pinch roller cleaner or isopropyl alcohol.
- After long use, the deck's heads and capstans may become magnetised, causing poor sound. Demagnetise these parts once every 30 hours of playing/recording time by using a commercial tape head demagnetiser. Read the demagnetiser's instructions carefully before use.

TAPE 1

TAPE 2

■ External care

- Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then wipe with a dry cloth.
- Do not use chemically treated cleaning cloths or other chemicals.

ones, make

3") diameter impedance.

ers are dis-tons for the

SPECIFICATIONS

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

■ General

Power source:	AC 230 V, 50 Hz
Power consumption:	32 W
Dimensions:	Width; 270 mm (10-5/8") Height; 300 mm (11-13/16") Depth; 373 mm (14-11/16")
Weight:	5.0 kg (11.0 lbs.)

■ Amplifier section

Output power:	PMPO; 64 W
	MPO; 32 W (16 W + 16 W) (DIN 45 324)
	RMS; 20 W (10 W + 10 W) (DIN 45 324)
	RMS; 14.6 W (7.3 W + 7.3 W) (DIN 45 500)
Output terminals:	Speakers; 8 ohms
	Headphones; 16 - 50 ohms (recommended; 32 ohms)

■ Compact disc player section

Type:	3-disc multi-play compact disc player
Signal readout:	Non-contact, 3-beam semi-conductor laser pickup
D/A converter:	1-bit D/A converter
Frequency response:	20 - 20,000 Hz
Dynamic range:	90 dB (1 kHz)

■ Tuner section

Frequency range:	FM; 87.5 - 108 MHz
	AM; 522 - 1,620 kHz

■ Cassette deck section

Frequency response:	50 - 14,000 Hz (Normal tape)
Signal/noise ratio:	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter:	0.35 % (DIN 45 511)

■ Speaker section

Type:	10 cm (4") full-range speaker
Maximum input power:	20 W
Rated input power:	10 W
Impedance:	8 ohms
Dimensions:	Width; 220 mm (8-11/16") Height; 300 mm (11-13/16") Depth; 180 mm (7-1/16")
Weight:	2.0 kg (4.4 lbs.)/each

MEMORANDUM/MÉMORANDUM/MEMORÁNDUM/ANTECKNINGAR
/ANNOTAZIONI/MEMORANDUM/MEMO

MEMORANDUM/MÉMORANDUM/MEMORÁNDUM/ANTECKNINGAR
/ANNOTAZIONI/MEMORANDUM/MEMO

R

**MEMORANDUM/MÉMORANDUM/MEMORÁNDUM/ANTECKNINGAR
/ANNOTAZIONI/MEMORANDUM/MEMO**

SHARP

SHARP CORPORATION

A0003.HK