

SHARP

MINI COMPONENT SYSTEM

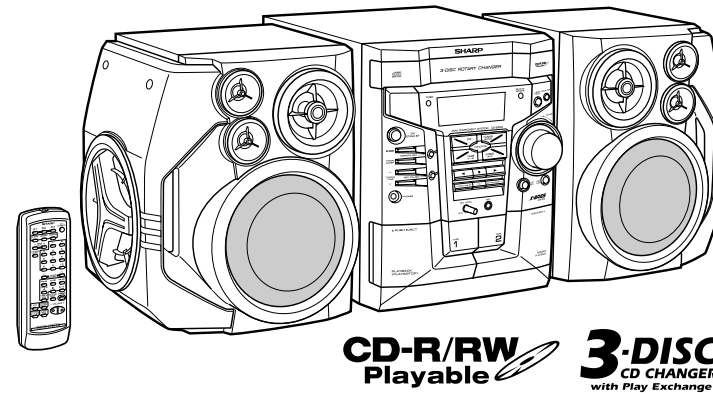
MODEL
CD-E800W

OPERATION MANUAL

COMPACT
disc
DIGITAL AUDIO

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.

CD-E800W Mini Component System consisting of CD-E800W (main unit) and CP-E800 (speaker system).



Special notes

Warning:

- When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit. When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the timer mode or remote control.
- This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.
- To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the apparatus.

Note for users in Australia:

Copyright may exist in material you wish to record. Copying or broadcasting such material without permission of the relevant licensees or owners of the copyright is prohibited by law. SHARP is not in a position to authorise the copying or broadcasting of copyright materials and nothing in this OPERATION MANUAL should be implied as giving that authority.

For other countries:

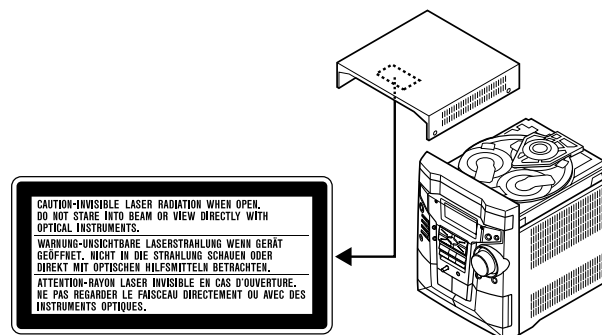
Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to the relevant laws in your country.

CAUTION

- This product is classified as a CLASS 1 LASER product.
- Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.


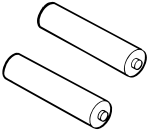
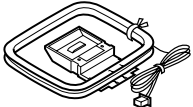
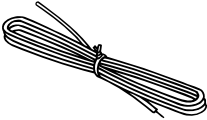
As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

Laser Diode Properties
 Material: GaAlAs
 Wavelength: 780 nm
 Emission Duration: continuous
 Laser Output: max. 0.6 mW



Accessories

Please confirm that the following accessories are included.

 <p>Remote control × 1</p>	 <p>"AA" size battery (UM/SUM-3, R6, HP-7 or similar) × 2</p>
 <p>AM loop aerial × 1</p>	 <p>FM aerial × 1</p>

Note:
Only the above accessories are included.

Contents

CD-E800W

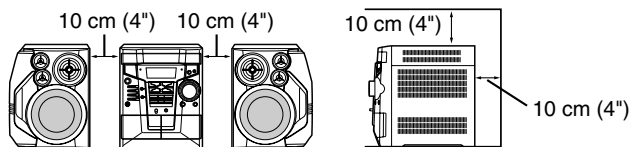
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General Information

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.



- Use the unit on a firm, level surface free from vibration.
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.
- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extremely low temperatures.
- If your system does not work properly, disconnect the AC power lead from the wall socket. Plug the AC power lead back in, and then turn on your system.
- In case of an electrical storm, unplug the unit for safety.
- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.
- **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**
- 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.
- This unit should only be used within the range of 5°C - 35°C (41°F - 95°F).

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.

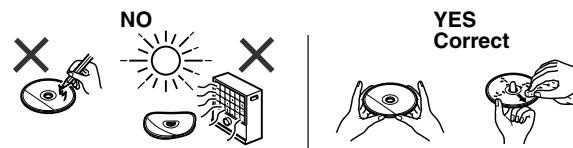
■ Volume control

The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels. Do not turn the volume on to full at switch on and listen to music at moderate levels.

■ Care of compact discs

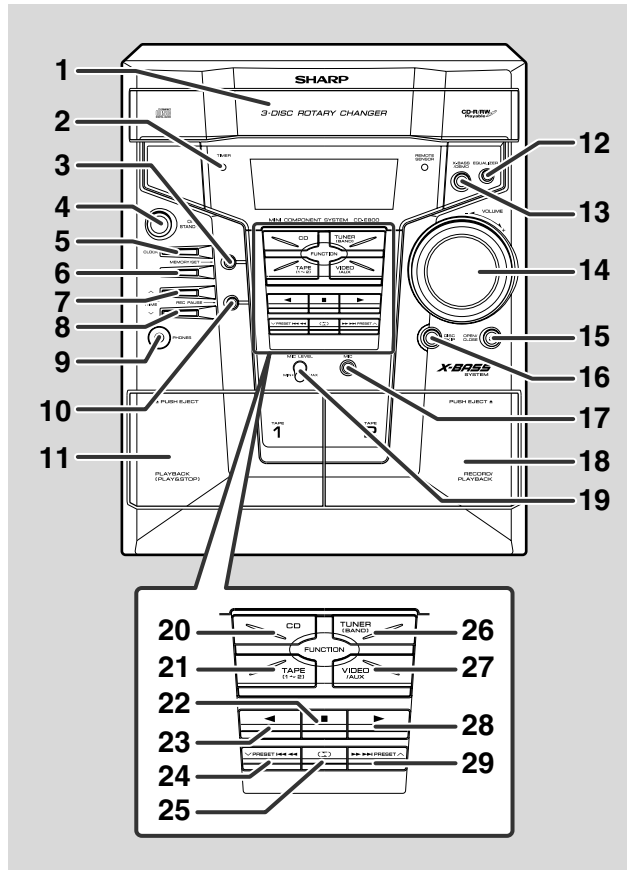
Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your CD collection and player.

- Do not write on either side of the disc, particularly the non-label side from which signals are read. 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.



Controls and indicators

CD-E800W

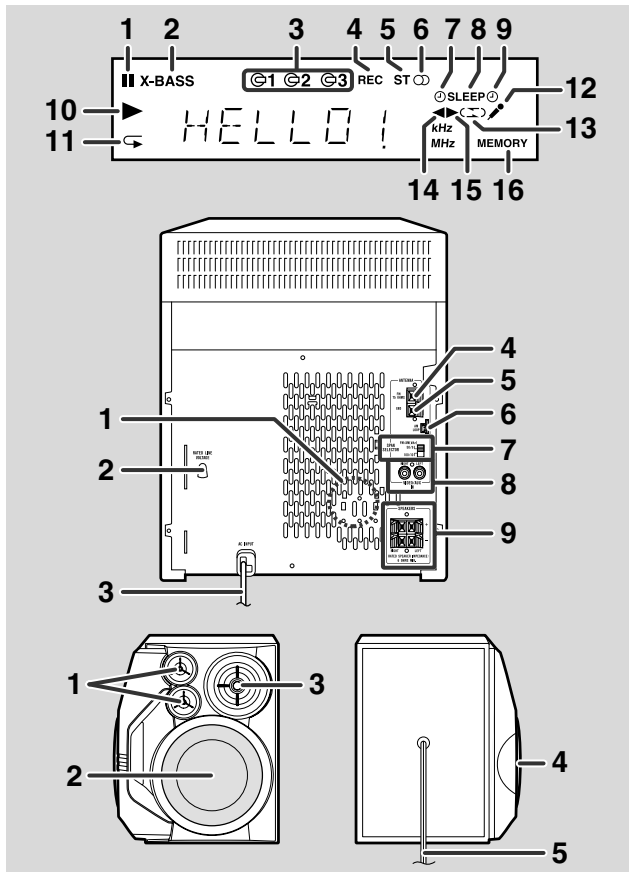


■ Front panel

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2. Timer Set Indicator	26
3. Memory/Set Button	12, 16, 18
4. On/Stand-by Button	9
5. Clock Button	12, 25
6. Timer/Sleep Button	25, 27
7. Tuning and Time Up Button	12, 17
8. Tuning and Time Down Button	12, 17
9. Headphone Socket	28
10. Tape 2 Record Pause Button	23, 24
11. Tape 1 Cassette Compartment	19
12. Equaliser Mode Select Button	11
13. Extra Bass/Demo Mode Button	9, 11
14. Volume Control	11
15. Disc Tray Open/Close Button	13
16. Disc Skip Button	13
17. Microphone Socket	21
18. Tape 2 Cassette Compartment	20
19. Microphone Level Control	21
20. CD Button	13
21. Tape (1 - 2) Button	19, 20
22. CD or Tape Stop Button	14, 19, 20
23. Tape 2 Reverse Play Button	20
24. CD Track Down or Fast Reverse, Tape 2 Fast Wind, Tuner Preset Down Button	14, 18, 20
25. Tape 2 Reverse Mode Select Button	20
26. Tuner (Band) Button	17
27. Video/Auxiliary Button	28
28. CD Play or Repeat, Tape 1 Play, Tape 2 Forward Play Button	13, 15, 19, 20
29. CD Track Up or Fast Forward, Tape 2 Fast Wind, Tuner Preset Up Button	14, 18, 20

General Information

Controls and indicators (continued)



■ Display

1. CD Pause Indicator
2. Extra Bass Indicator
3. Disc Number Indicators
4. Tape 2 Record Indicator
5. FM Stereo Mode Indicator
6. FM Stereo Receiving Indicator
7. Timer Play Indicator
8. Sleep Indicator
9. Timer Recording Indicator
10. CD Play Indicator
11. CD Repeat Play Indicator
12. Karaoke Mode Indicator
13. Tape Reverse Mode Indicator
14. Tape 2 Reverse Play Indicator
15. Tape 1 Play or Tape 2 Forward Play Indicator
16. Memory Indicator

■ Rear panel

Reference page

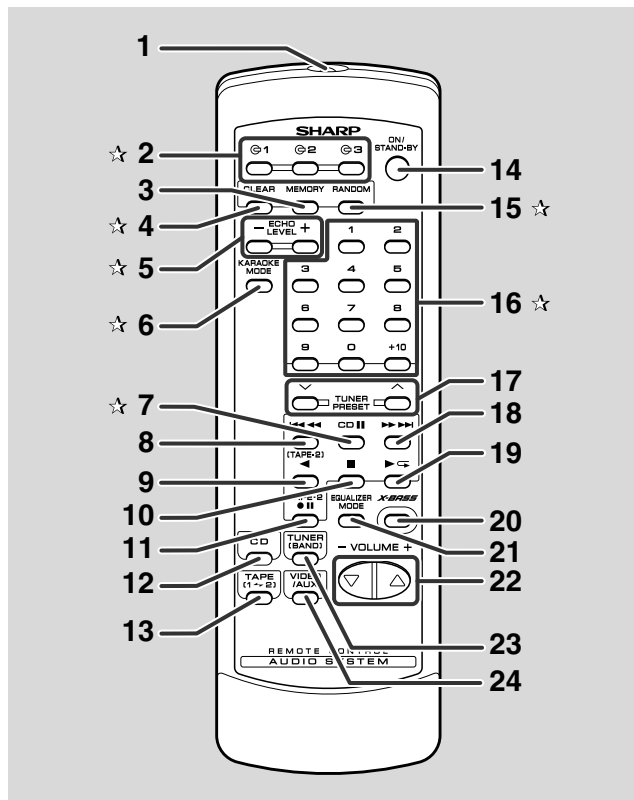
1. Cooling Fan
2. AC Voltage Selector 8
3. AC Power Lead 7, 8
4. FM 75 Ohms Aerial Terminal 7
5. FM Aerial Earth Terminal 7
6. AM Loop Aerial Socket 7
7. Span Selector Switch 9
8. Video/Auxiliary (Audio Signal) Input Sockets 28
9. Speaker Terminals 7, 8

Note:

This product is equipped with a cooling fan inside, which begins to run at a specified volume level for better heat radiation.

■ Speaker system

1. Super Tweeters
2. Woofer
3. Tweeter
4. Passive Radiator
5. Speaker Wire



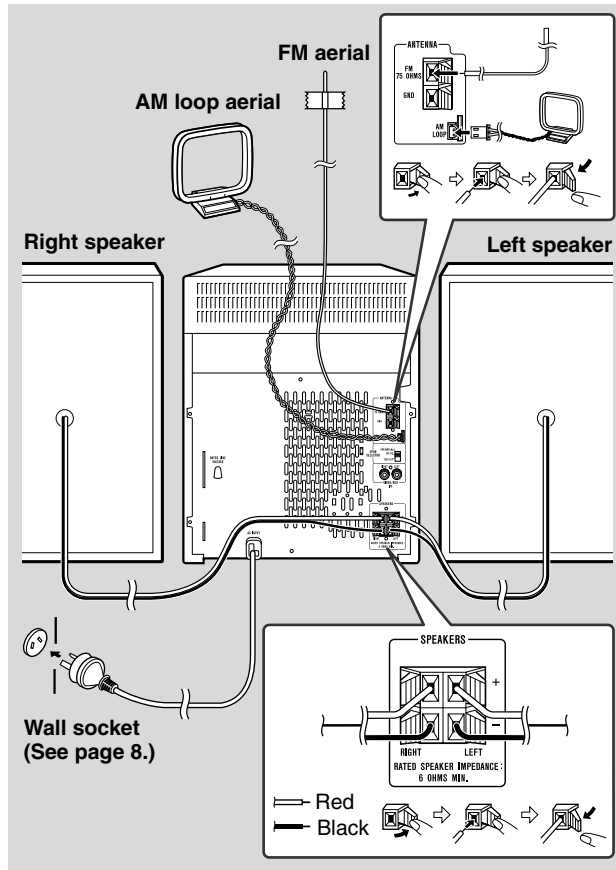
Buttons with "☆" mark in the illustration or highlighted in bold on the right can be operated on the remote control only.

■ Remote control

	Reference page
1. Remote Control Transmitter	10
2. Disc Number Select Buttons	13, 16, 23
3. CD Memory Button	16
4. Programme Clear Button	16
5. Echo Level Up and Down Buttons	21
6. Karaoke Mode Button	22
7. CD Pause Button	14
8. CD Track Down or Fast Reverse, Tape 2 Fast Wind Button	14, 20
9. Tape 2 Reverse Play Button	20
10. CD or Tape Stop Button	14, 19, 20
11. Tape 2 Record Pause Button	23, 24
12. CD Button	13
13. Tape (1 → 2) Button	19, 20
14. On/Stand-by Button	10
15. CD Random Button	15
16. Direct Search Buttons	15
17. Tuner Preset Up and Down Buttons	18
18. CD Track Up or Fast Forward, Tape 2 Fast Wind Button	14, 20
19. CD Play or Repeat, Tape 1 Play, Tape 2 Forward Play Button	13, 15, 19, 20
20. Extra Bass Button	11
21. Equaliser Mode Select Button	11
22. Volume Up and Down Buttons	11
23. Tuner (Band) Button	17
24. Video/Auxiliary Button	28

System connections

Preparation for Use



■ Aerial connection

Supplied FM aerial:

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

Supplied AM loop aerial:

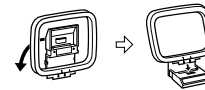
Connect the AM loop aerial to the AM LOOP socket. Position the AM loop aerial for optimum reception. Place the AM loop aerial on a shelf, etc., or attach it to a stand or a wall with screws (not supplied).

Note:

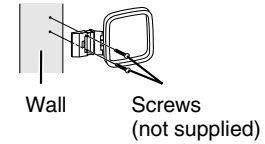
Placing the aerial on the unit or near the AC power lead may cause noise pickup. Place the aerial away from the unit for better reception.

Installing the AM loop aerial:

< Assembling >

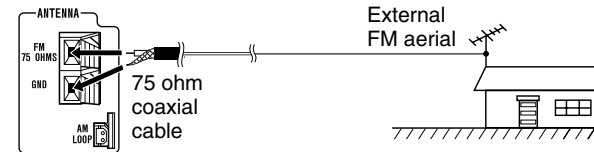


< Attaching to the wall >



External FM aerial:

Use an external FM aerial if you require better reception. Consult your dealer.



Note:

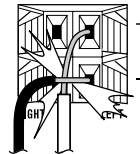
When an external FM aerial is used, disconnect the supplied FM aerial wire.

■ Speaker connection

Connect the black wire to the minus (-) terminal, and the red wire to the plus (+) terminal.

Caution:

- Use speakers with an impedance of 6 ohms or more, as lower impedance speakers can damage the unit.
- Do not mistake the right and the left channels. The right speaker is the one on the right side when you face the unit.
- **Do not let the bare speaker wires touch each other.**
- Do not stand or sit on the speakers. You may be injured.



Incorrect

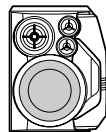
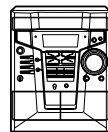
■ Placing the speaker system

The left and right speakers have individual shapes. For best performance, place the speakers according to the diagram below.

Left speaker



Right speaker



Note:

The speaker grilles are not removable.

■ Setting the AC voltage selector

Check the setting of the AC voltage selector located on the rear panel before plugging the unit into a wall socket. If necessary, adjust the selector to correspond to the AC power voltage used in your area.

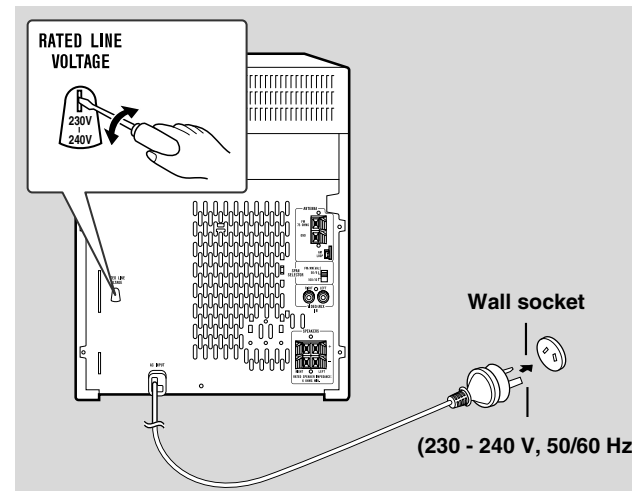
Turn the selector with a screwdriver until the appropriate voltage number appears in the window (110 V, 127 V, 220 V or 230 V - 240 V AC).

■ Connecting the AC power lead

After checking all the connections have been made correctly, plug the AC power lead of this unit into the wall socket. If you plug the unit first, the unit will enter the demonstration mode (see page 9).

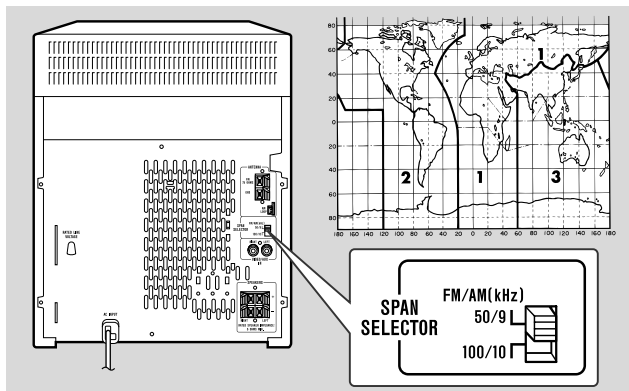
Notes:

- The unit will start the tape initialisation when plugged in to the AC socket. During this process, initialising sound will be heard and the unit cannot be turned on. Wait until the process is finished.
- Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.



System connections (continued)

■ Setting the FM/AM span selector



The International Telecommunication Union (ITU) has established that member countries should maintain either a 100 kHz or a 50 kHz interval between broadcasting frequencies of FM stations and 10 kHz or 9 kHz for AM station. The illustration shows the 50/9 kHz zones (regions 1 and 3), and the 100/10 kHz zone (region 2). Before using the unit, set the SPAN SELECTOR switch (on the rear panel) to the interval (span) of your area.

To change the tuning zone:

- 1 Press the ON/STAND-BY button to enter the stand-by mode.
- 2 Set the SPAN SELECTOR switch (on the rear panel) as follows.
 - For 50 kHz FM interval (9 kHz in AM) → 50/9
 - For 100 kHz FM interval (10 kHz in AM) → 100/10
- 3 Whilst pressing down the ► button and the X-BASS/DEMO button, press the ON/STAND-BY button until "CLEAR AL" appears.

Caution:

This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

■ Demonstration mode

The first time the unit is plugged in, the unit will enter the demonstration mode. You will see words scroll.

HELLO!

To cancel the demonstration mode:

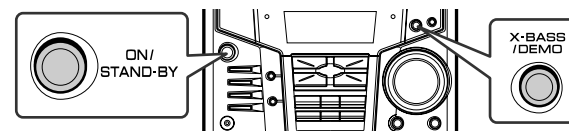
When the unit is in the power stand-by mode (demonstration mode), press the X-BASS/DEMO button. The demonstration mode will be cancelled and the display will disappear.

To return to the demonstration mode:

When the unit is in the power stand-by mode, press the X-BASS/DEMO button again.

Note:

When the power is on, the X-BASS/DEMO button can be used to select the extra bass mode.



■ To turn the power on

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

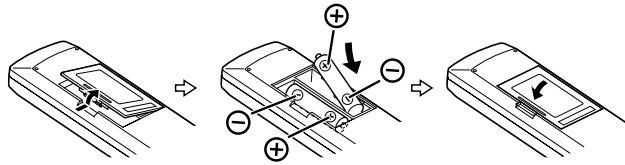
After use:

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

Remote control

■ Battery installation

- 1 Remove the battery cover.
- 2 Insert the batteries according to the direction indicated in the battery compartment.
When inserting or removing the batteries, push them towards the ⊖ battery terminals.
- 3 Replace the cover.



Precautions for battery use:

- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit is not to 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.).
- Installing the batteries incorrectly may cause the unit to malfunction.

Notes concerning use:

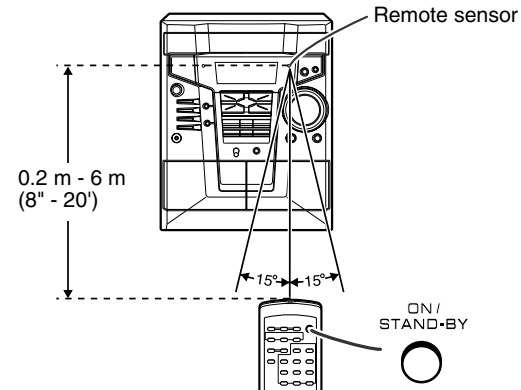
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic. Purchase 2 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar).
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, heat, shock, and vibrations.

■ Test of the remote control

Check the remote control after checking all the connections (see pages 7 - 8).
Point the remote control directly at the remote sensor on the unit.

The remote control can be used within the range shown below:

Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy music.



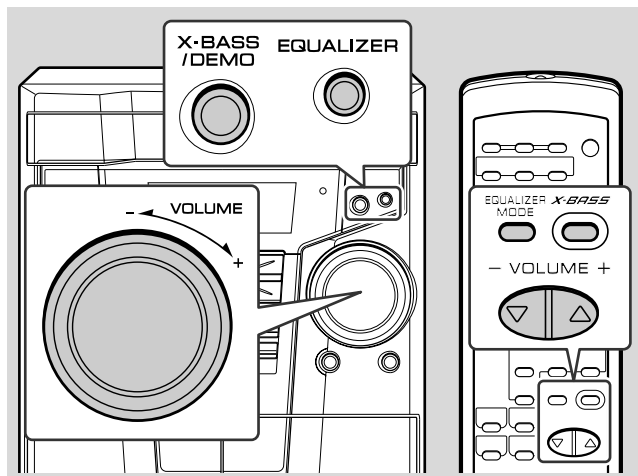
CD-E800W

2

Preparation for Use

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Sound control



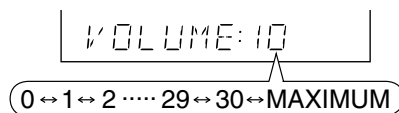
■ Volume control

Main unit operation:

When the VOLUME control is turned clockwise, the volume will increase. When it is turned anti-clockwise, the volume will decrease.

Remote control operation:

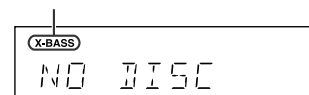
Press the VOLUME (Δ or ∇) button to increase or decrease the volume.



■ Bass control

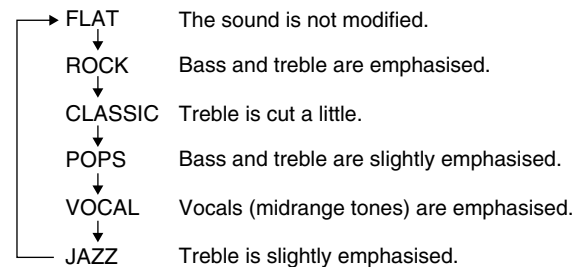
When the power is first turned on, the unit will enter the extra bass mode which emphasises the bass frequencies, and "X-BASS" will appear. To cancel the extra bass mode, press the X-BASS/DEMO (X-BASS) button.

X-BASS indicator



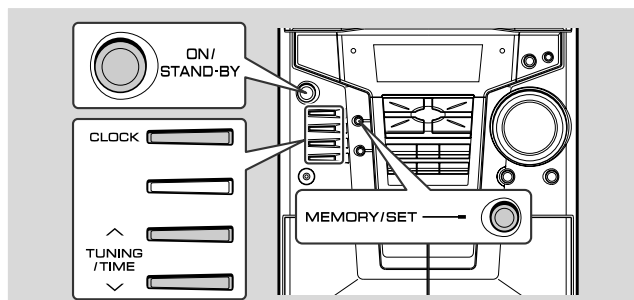
■ Equaliser

When the EQUALIZER (EQUALIZER MODE) button is pressed, the current mode setting will be displayed. To change to a different mode, press the EQUALIZER (EQUALIZER MODE) button repeatedly until the desired sound mode appears.



Setting the clock

CD-E800W



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

- 1 Press the ON/STAND-BY button to turn the power on.**
- 2 Press the CLOCK button and within 5 seconds, press the MEMORY/SET button.**
- 3 Press the TUNING/TIME (∨ or ∧) button to select 24-hour or 12-hour display and then press the MEMORY/SET button.**

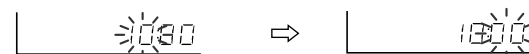
"0:00" → The 24-hour display will appear. (0:00 - 23:59)

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

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

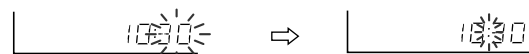
Note that this can only be set when the unit is first installed or it has been reset. [Refer to "Clearing all the memory (reset)" on page 30 for details.]

4 Press the TUNING/TIME (∨ or ∧) button to adjust the hour and then press the MEMORY/SET button.



- 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".

5 Press the TUNING/TIME (∨ or ∧) button to adjust the minutes and then press the MEMORY/SET button.



- 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 will not advance even if minutes advance from "59" to "00".

To confirm the time display:

Press the CLOCK button.

The time display will appear for about 5 seconds.



Note:

The "CLOCK" or time will flash at the push of the CLOCK button when the AC power supply is restored after a power failure or unplugging the unit.

Readjust the clock as follows.

To readjust the clock:

Perform "Setting the clock" from step 1. If the "CLOCK" is not flashing in step 2, step 3 (for selecting the 24-hour or 12-hour display) will be skipped.

To change the 24-hour or 12-hour display:

- 1 Clear all the programmed contents. [Refer to "Clearing all the memory (reset)" on page 30 for details.]
- 2 Perform "Setting the clock" from step 1.

3

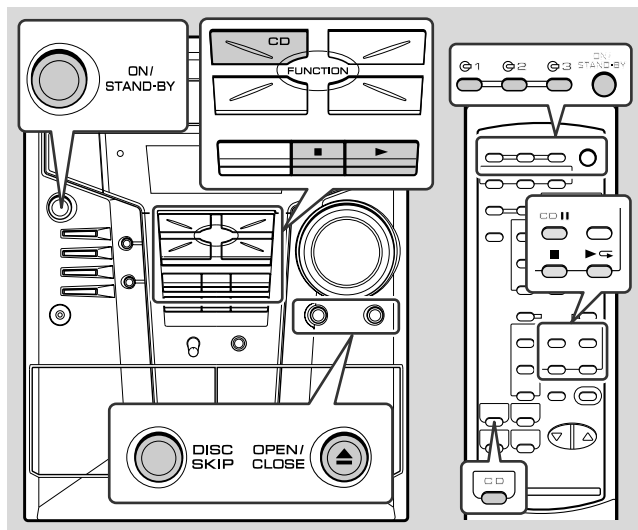
Basic Operation

12

Listening to a CD (CDs)

This system can also play audio CD-R and CD-RW discs, but cannot record.

Some audio CD-R and CD-RW discs may not be playable due to the state of disc or the device that was used for recording.



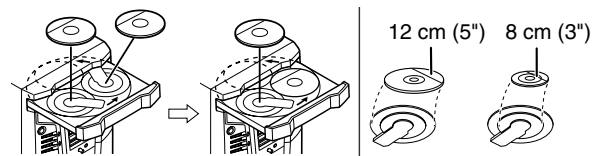
CD Playback

- 1** Press the ON/STAND-BY button to turn the power on.
- 2** Press the CD button.
- 3** Press the OPEN/CLOSE \blacktriangle button to open the disc tray.

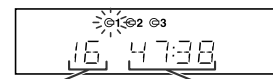
4 Place the CD(s) on the disc tray, label side up.

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

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



5 Press the OPEN/CLOSE \blacktriangle button to close the disc tray.



Total number of tracks on the CD whose number is flashing

Total playing time of the CD whose number is flashing

6 To select the CD you want to listen to first, press one of the \odot 1 - \odot 3 buttons on the remote control.

7 Press the \blacktriangleright (\blacktriangleright \square) button to start playback.

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

To interrupt playback:

Press the CD **II** button on the remote control.
To resume playback from the same point, press the ► ◀ button.

To stop playback:

Press the ■ 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.

Caution:

- Do not place two CDs in one disc tray.
- Do not play discs with special shapes (heart- or octagon-shaped). It may cause malfunctions.
- 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 with force, "ER-CD10" will appear on the display for 3 seconds and the unit will not function. If this occurs, press the ON/STAND-BY button to enter the power 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 skip or not play back.

■ To locate the beginning of a track**To move to the beginning of the next track:**

Press the ►►► button for less than 0.5 seconds during playback.

To restart the track being played:

Press the ◀◀◀ button for less than 0.5 seconds during playback.

Notes:

- You can locate the beginning of a track on a single disc only.
- You can skip to any track by pressing the ◀◀◀ or ►►► button repeatedly until the desired track number appears.

■ To locate the desired portion**For audible fast forward:**

Press and hold down the ►►► button during playback.

For audible fast reverse:

Press and hold down the ◀◀◀ button during playback.

Notes:

- Normal playback will resume when the ◀◀◀ or ►►► button is released.
- You can locate the desired portion on a single disc only.
- When the end of the last track is reached during fast forward, "END" will appear on the display and CD operation will be paused. When the beginning of the first track is reached during fast reverse, the unit will enter the playback mode.

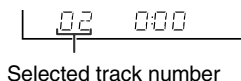
Advanced CD playback

■ Direct search of the track

By using the direct search buttons, the desired tracks can be played.

1 Whilst in the stop mode, press one of the 1 - 3 buttons on the remote control or DISC SKIP button to select the desired disc.

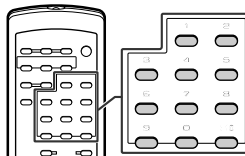
2 Use the direct search buttons on the remote control to select the desired track.



- The direct search buttons allow you to select up to number 9.
- When selecting number 10 or more, use the "+10" button.

A. For example, to choose 13

- 1 Press the "+10" button once.
- 2 Press the "3" button.



B. For example, to choose 30

- 1 Press the "+10" button three times.
- 2 Press the "0" button.

3 Press the button to start playback.

Playback of the selected track is started. When the end of last track of the disc selected is reached, the next disc will be automatically started.

To stop playback:

Press the button.

Notes:

- The selected track can be started simply by pressing the direct search buttons during playback. (It is not necessary to press the button.)
- A track number higher than the number of tracks on the disc cannot be selected.
- During random play, direct search is not possible.

■ 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.



To repeat a desired track:

Perform steps 1 - 4 in the "Programmed play" section on page 16 and then press the button twice.

To cancel repeat play:

Press the button again. "—" will go out.

■ Random play

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

Press the RANDOM button on the remote control to begin random play.



To cancel random play:

Press the button.

Notes:


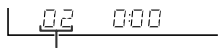

- If you press the button during random play, you can move to the track selected next by the random operation. On the other hand, the button does not allow you to move to the previous track. The beginning of the track being played will be located.
- In random play, the CD player will select and play tracks automatically. (You cannot select the order of the tracks.)

Caution:

After performing repeat or random play, be sure to press the button. Otherwise, the disc(s) will play continuously.

■ Programmed play

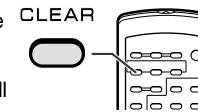
You can choose up to 32 selections for playback in the order you like.

<p>1 Whilst in the stop mode, press one of the 1 - 3 buttons on the remote control to select the desired disc.</p>	<p>Selected disc number</p> 
<p>2 Press the direct search buttons on the remote control to select the desired track.</p> <p>You can also select a track by pressing the <<<< or >>>> button.</p>	<p>Selected track number</p> 
<p>3 Press the MEMORY/SET (MEMORY) button to save the track number.</p>	<p>Playback order</p>  <p>When the track is memorised, "MEMORY" will appear.</p>
<p>4 Repeat steps 1 - 3 for other tracks. Up to 32 tracks can be programmed.</p> <p>If you make a mistake, the programmed tracks can be cleared by pressing the CLEAR button.</p>	
<p>5 Press the ► (► ◀) button to start playback.</p>	

To clear the programmed selections:

Whilst the "MEMORY" indicator is lit, set the CD to the stop mode and then press the CLEAR button.

Each time the button is pressed, one track will be cleared, beginning with the last track programmed. When all the tracks are cleared, "MEMORY" will disappear.



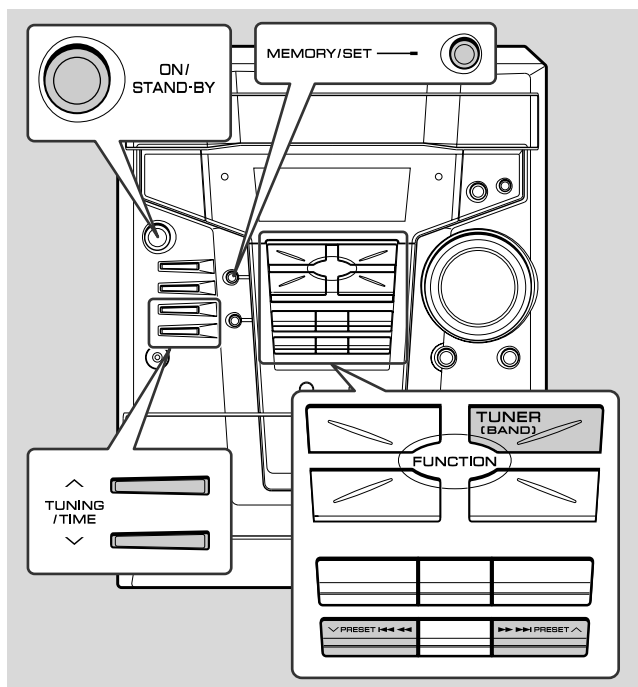
Adding tracks to the programme:

If a programme has been previously stored, the "MEMORY" indicator will be displayed. Then follow steps 1 - 3 to add tracks. The new tracks will be stored after the last track of the original programme.

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 change the function from CD to another, the programmed selections will not be cleared.
- During programme operation, random play is not possible.

Listening to the radio



■ Tuning

- 1 Press the ON/STAND-BY button to turn the power on.
- 2 Press the TUNER (BAND) button repeatedly to select the desired frequency band (FM or AM).

- 3 Press the TUNING/TIME (∨ or ∧) button to tune in to the desired station.

Manual tuning:

Press the TUNING/TIME button as many times as required to tune in to the desired station.

Auto tuning:

When the TUNING/TIME 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:

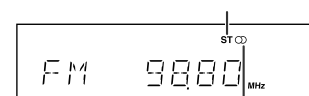
- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, press the TUNING/TIME button again.

To receive an FM stereo transmission:

Press the TUNER (BAND) button to display the "ST" indicator.

- "∞" will appear when an FM broadcast is in stereo.

FM stereo mode indicator



FM stereo receiving indicator

- If the FM reception is weak, press the TUNER (BAND) button to extinguish the "ST" indicator. The reception changes to monaural, and the sound becomes clearer.

Note:

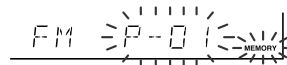
This product can receive FM stereo/FM monaural and AM monaural broadcasts. AM stereo broadcasts will not be played in stereo.

■ Memorising a station

You can store 40 AM and FM stations in memory and recall them at the push of a button. (Preset tuning)

1 Perform steps 1 - 3 in "Tuning" on page 17.

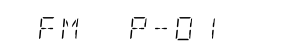
2 Press the MEMORY/SET button to enter the preset tuning saving mode.



3 Within 30 seconds, press the PRESET (∨ or ∧) button to select the preset channel number.

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 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 stations, or to change a preset station.

When a new station is stored in memory, the station previously memorised will be erased.

Note:

The backup function protects the memorised stations for a few hours should there be a power failure or if the AC lead is disconnected.

■ To recall a memorised station

Press the PRESET (∨ or ∧) button for less than 0.5 seconds to select the desired station.

This can be operated by pressing the TUNER PRESET (∨ or ∧) button on the remote control.

■ To scan the preset stations

The stations saved in memory can be scanned automatically. (Preset memory scan)

- Press the PRESET (∨ or ∧) button for more than 0.5 seconds.
 - The preset number will flash and the programmed stations will be tuned in sequentially, for 5 seconds each.
 - This can be operated by pressing the TUNER PRESET (∨ or ∧) button on the remote control.
- Press the PRESET (∨ or ∧) button again when the desired station is located.

■ To erase entire preset memory

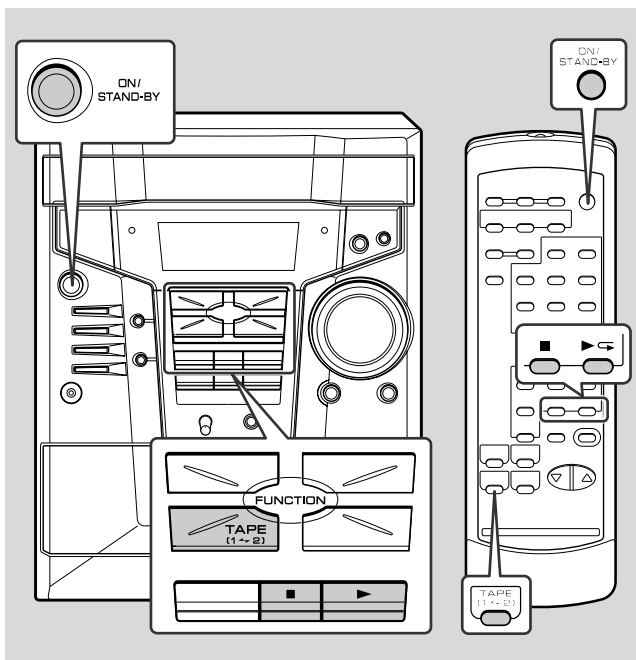
- Press the ON/STAND-BY button to enter the stand-by mode.
- Whilst pressing down the TUNER (BAND) button and the X-BASS/DEMO button, press the ON/STAND-BY button until "TUNER CL" appears.

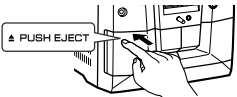

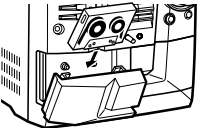


Listening to a cassette tape (TAPE 1)

Before playback:

- For playback, use normal or low-noise tapes for the best sound. (Metal or CrO₂ tapes are not recommended.)
- Do not use C-120 tapes or poor-quality tapes, as they may cause malfunctions.
- Before loading a tape into the cassette compartment, tighten the slack with a pen or a pencil.



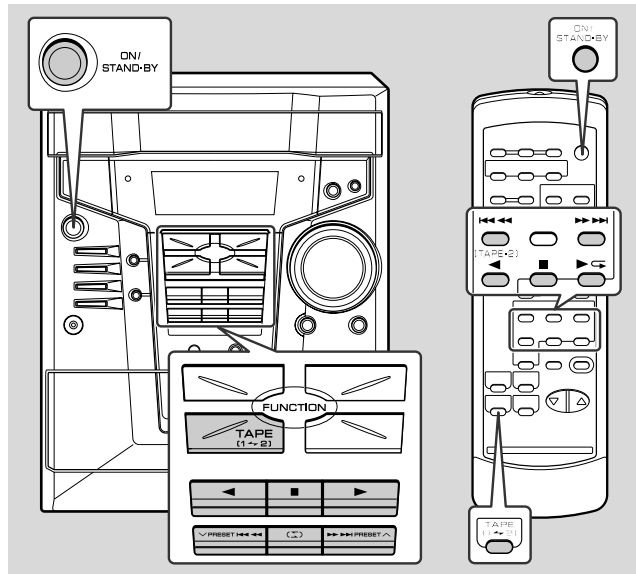
- 1 Press the ON/STAND-BY button to turn the power on.
- 2 Press the TAPE (1 → 2) button to select TAPE 1.
- 3 Open the cassette door by pushing the area marked "PUSH EJECT ▲".
 

- 4 Load a cassette into the TAPE 1 cassette compartment with the side to be played facing toward you.
 
- 5 Press the ► (▶ ◀) button to start playback.

To stop playback:
Press the ■ button.

Note:
You cannot fast-forward or rewind the cassette in the TAPE 1 compartment.

Listening to a cassette tape (TAPE 2)

CD-E800W

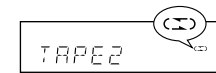


- 1** Press the ON/STAND-BY button to turn the power on.
- 2** Press the TAPE (1 → 2) button to select TAPE 2.
- 3** Open the cassette door by pushing the area marked "PUSH EJECT ▲".

- 4** Load a cassette into the TAPE 2 cassette compartment with side A facing you.



- 5** Press the button to choose one side or both sides.



- ... To listen to both sides.
- ... For endless repeat play of both sides.
- ... To listen to one side.

- 6** Press the (▶) button to listen to side A, or the [(TAPE-2) ◀] button for side B.
To play both sides (), start from side A. When playback starts from side B, side A will not be played.

To stop playback:
Press the button.

Fast forward/rewind on side A:
To advance the tape, press the button. To rewind it, press the button.

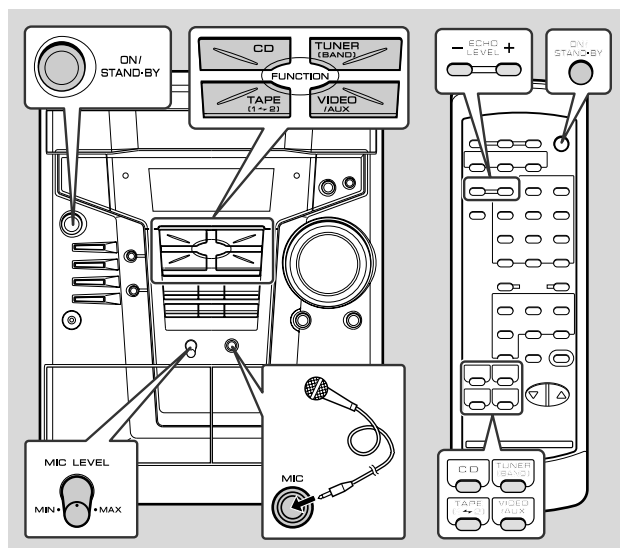
Fast forward/rewind on side B:
To advance the tape, press the button. To rewind it, press the button.

Caution:

- To remove the cassette, press the button, and then open the compartment.
- Before changing from one tape operation to another, press the 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 the power is restored.

Playing karaoke

You can enjoy karaoke to CDs, radio, cassettes, and other external devices by connecting a separately available microphone to this unit.



1 Set the MIC LEVEL control to MIN to protect the speakers from shock noise and to avoid disturbing noises.

2 Connect the microphone to the MIC socket.

- Use a microphone with a 6.3 mm (1/4") plug, an impedance of 600 ohms.
- Use a standard plug adaptor when using a microphone with a 3.5 mm (1/8") diameter plug.

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

4 Press the CD, TUNER (BAND), TAPE (1 → 2) or VIDEO/AUX button to select the audio source and play it.

5 Adjust the volume of the audio source using the VOLUME control.

6 Turn the MIC LEVEL control towards MAX to increase the microphone volume and towards MIN to decrease it.

7 Press the ECHO LEVEL + button on the remote control to increase the microphone echo, and the ECHO LEVEL - button to decrease it.

Notes:

- When you sing too loud through the microphone, your voice may be distorted depending on the devices connected. If this happens, lower the microphone volume.
- If an extremely sensitive microphone is used, howling may be generated.
- Unidirectional microphone is more appropriate for vocal use.

If squealing occurs:

- Reduce the microphone volume.
- Change the direction of the microphone.
- Reduce the volume of the main unit.
- Move the microphone away from the speakers.

Caution:

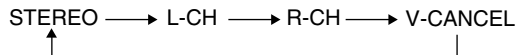
- When not using the microphone, remove it from the MIC socket.
- When connecting or disconnecting the microphone, set the MIC LEVEL control to MIN.

■ To change the audio mode

Sound of the playback source can be switched among the STEREO, L-CH, R-CH, and V-CANCEL (VOCAL CANCEL) modes. The audio mode function is used when the left and right channels have individual signals from each other.

Press the **KARAOKE MODE** button on the remote control until the desired audio mode is displayed.

Each time the **KARAOKE MODE** button is pressed, the mode will change as follows:



STEREO	Sounds on the left and right channels are played.
L-CH	Sounds on the left channel only are played.
R-CH	Sounds on the right channel only are played.
V-CANCEL	The main vocal is lowered.

Notes:

- The initial audio mode setting is "STEREO".
- In any mode other than the STEREO mode, "♪" will appear.
- The setting will remain unchanged when you change the disc, you set the unit to the stand-by mode or the function is changed from the CD to another function.
- When playing a sound multiplexed disc on which a vocal and music have been separately recorded, select the audio mode as desired.

■ To change general stereo source to karaoke source

Even ordinary discs and tapes not recorded specifically for karaoke can be used for karaoke just by toning down the main vocal.

Press the **KARAOKE MODE** button on the remote control until "**V-CANCEL**" appears in the display. "♪" will appear.

Notes:

- Use discs recorded in stereo. The function will not work with mono sources.
- With some discs and tapes the original vocals may still be heard.

Notes on sound multiplexed karaoke discs:

Sound multiplexed karaoke discs are discs on which the main vocal and the BGM (Background music) have been recorded on one of the two channels and only the BGM on the other.

- The function will not work properly with discs which do not belong to this group.
- Discs on which vocal has been recorded on the left channel and music on the right may not play properly.

■ Recording of mixed sound to a cassette tape

You can record mixed sound from the microphone and CD, TUNER, TAPE 1 or VIDEO/AUX.

- 1 Perform steps 1 - 3 in "Playing karaoke" on page 21.
- 2 Press the CD, TUNER (BAND), TAPE (1 → 2) or VIDEO/AUX button to select the audio source.
- 3 Load a cassette into the TAPE 2 cassette compartment with side A facing you.
- 4 Perform steps 5 - 7 in "Playing karaoke" on page 21.
- 5 Press the ◀▶ button to choose one side or both sides.
- 6 Press the REC PAUSE (TAPE-2 ●||) button.
- 7 Press the ▶ (▶ ◀) button to record on side A, or the ◀ [(TAPE-2) ◀] button for side B.

■ Recording of the microphone signals only to a cassette tape

- 1 Perform step 1 above.
- 2 Press the TAPE (1 → 2) button until "TAPE 2" appears on the display.
- 3 Perform steps 3 - 7 above.

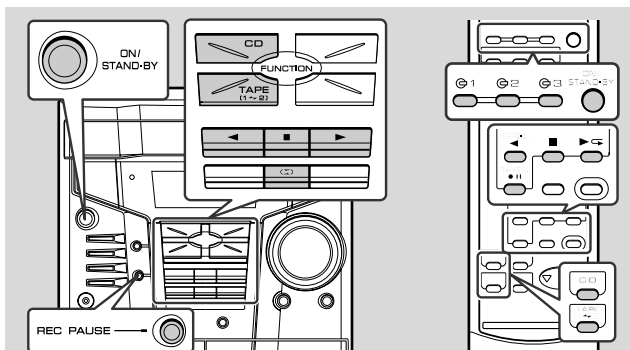
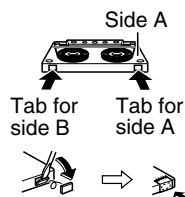
Recording to a cassette tape

Before recording:

- When recording important selections, make a preliminary test to ensure that the desired material is properly recorded.
- SHARP is not liable for damage or loss of your recording arising from malfunction of this unit.
- The volume and sound controls can be adjusted with no effect on the recorded signal (Variable Sound Monitor).
- **For recording, use only normal tapes. Do not use metal or CrO₂ tapes.**
- Recording can be operated in the TAPE 2 compartment. The TAPE 1 is for playback only.

Erase-prevention tab of cassette tapes:

- When recording on a cassette tape, make sure that the erase-prevention tabs are not removed. Cassettes have removable tabs that prevent accidental recording or erasing.
- To protect the recorded sound, remove the tab after recording. Cover the tab hole with adhesive tape to record on the tape without the tab.



■ Recording from a CD (CDs)

You can record 3 CDs continuously.

- 1 Press the ON/STAND-BY button to turn the power on.**
- 2 Load a cassette into the TAPE 2 cassette compartment with side A facing you.**
Wind past the leader of the tape, on which recording cannot be performed.
- 3 Press the CD button and load the desired disc.**
- 4 Press the button to choose one side or both sides.**
 ... To record on both sides.
 ... To record on only one side.
- 5 Press one of the 1 - 3 buttons on the remote control to select the disc to be recorded first.**
- 6 Press the REC PAUSE (TAPE-2 II) button.**
Recording will be paused.
- 7 Press the (▶ ◀) button to record on side A, or the [(TAPE-2) ◀] button for side B.**
 - To record on both sides, begin with side A. (If recording is started from side B, the tape will not switch over to side A.)
 - Recording is started from the selected CD. When the playback of the last disc is finished or the end of the tape is reached, the CD and the cassette will stop automatically.
 - CD playback will start approximately 7 seconds after the tape starts.

To perform programmed recording:

- 1 Programme discs and tracks. (See page 16.)
- 2 Press the REC PAUSE (TAPE-2 II) button.
- 3 Press the (▶ ◀) button to record on side A, or the [(TAPE-2) ◀] button for side B.

To stop recording:

Press the button.
The CD and tape will stop.

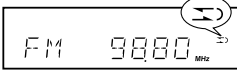

Note:

Whilst recording, OPEN/CLOSE \blacktriangle button is deactivated. It is recommended to perform CD recording after closing the disc tray.

Auto restart function:

If the recording side is switched from side A to B during recording, the system will record the interrupted track on side B from its beginning. The recording will be made without cutting the beginning of the track on side B.

Recording from the radio

- 1 Tune in to the desired station. (See page 17.)**
- 2 Load a cassette into the TAPE 2 cassette compartment with side A facing you.**
Wind past the leader of the tape, on which recording cannot be performed.
- 3 Press the \leftrightarrow button to choose one side or both sides.**
 \rightarrow ... To record on both sides.
 \leftarrow ... To record on only one side.
 
- 4 Press the REC PAUSE (TAPE-2 \bullet II) button.**
Recording will be paused.
 
- 5 Press the \blacktriangleright (\blacktriangleright \leftarrow) button to record on side A, or the \blacktriangleleft [(TAPE-2) \blacktriangleleft] button for side B.**
To record on both sides, begin with side A. (If recording is started from side B, the tape will not switch over to side A.)

To interrupt recording:

Press the REC PAUSE (TAPE-2 \bullet II) button.

To resume recording, press the same recording button you pressed in step 5. Other buttons do not allow resuming.

To stop recording:

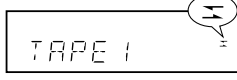

Press the \blacksquare button.

Note:

If you hear a whistling noise whilst recording an AM station, move the AM loop aerial.

Dubbing from tape to tape

You can record from TAPE 1 to TAPE 2.

- 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 \leftrightarrow 2) button until "TAPE 1" appears on the display.**
The reverse mode will be set to "1".
 
- 4 Press the REC PAUSE (TAPE-2 \bullet II) button.**
Recording will be paused.
 
- 5 Press the \blacktriangleright (\blacktriangleright \leftarrow) button to start dubbing.**

To stop dubbing:

Press the \blacksquare button.

TAPE 1 and TAPE 2 will simultaneously stop.

Erasing recorded tapes

- 1 Load the tape to be erased into the TAPE 2 cassette compartment with the side to be erased facing toward you.
- 2 Press the TAPE (1 \leftrightarrow 2) button until "TAPE 2" appears on the display.
- 3 Set the \leftrightarrow button to " \leftarrow " to erase only one side and to " \leftrightarrow " to erase both sides.
- 4 Press the REC PAUSE (TAPE-2 \bullet II) button.
- 5 Press the \blacktriangleright (\blacktriangleright \leftarrow) button to erase side A, or the \blacktriangleleft [(TAPE-2) \blacktriangleleft] button to erase side B.
To erase both sides, begin with side A. (If erasing is started from side B, the tape will not switch over to side A.)

Note:

Make sure that the TAPE 1 is not in use.

Timer and sleep operation

Timer playback:

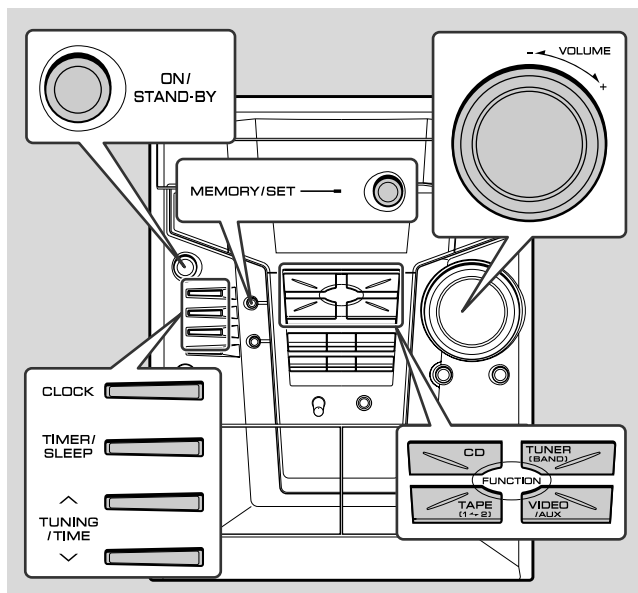
The unit turns on and plays the desired source (CD, tuner, tape) at the preset time.

Timer recording:

The unit turns on and starts recording from the tuner at the preset time.

Sleep operation:

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



■ Timer playback or timer recording

Before setting timer:

- 1 Press the CLOCK button to check that the clock is set to the correct time. (Refer to page 12.)
- 2 For timer playback:
Load a cassette or discs to be played.
For timer recording:
Load a cassette for recording in the TAPE 2 cassette compartment.



- 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.
To select the timer playback source:
Press CD, TUNER (BAND) or TAPE (1 → 2).
To select the timer recording source:
Press TUNER (BAND).
When you select the TUNER (BAND), tune into the desired station.
- 3 Adjust the volume using the VOLUME control.
Do not turn the volume up too high.
- 4 Press the TIMER/SLEEP button repeatedly to select timer playback or timer recording.
Display the white "⌚" for timer playback and the red "⌚" for timer recording.



White



Red

- 5 Press the TUNING/TIME (∨ or ∧) button to specify the hour to start, then press the MEMORY/SET button.**

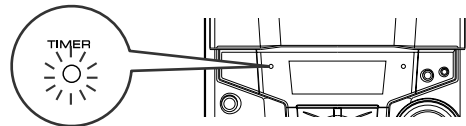


The illustrations show the timer playback setting.

- 6 Press the TUNING/TIME (∨ or ∧) button to specify the minutes, then press the MEMORY/SET button.**



The unit will enter the timer stand-by mode automatically.



To cancel the timer playback/timer recording:

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

- 7 When the preset time is reached, playback or recording will start.**

The volume will increase gradually until it reaches the volume you were listening to before your system entered the timer stand-by mode.

In timer playback:

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.

In timer recording:

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

To reset or change the timer setting:

Perform "Timer playback or timer recording" from the beginning.

Note:

When performing timer playback or recording using another unit connected to the VIDEO/AUX IN sockets, select "VIDEO/AUX" in step 2.

At this time, only this unit will be turned on or enter the power stand-by mode automatically. It will enter the power stand-by mode when the end of the recording tape is reached in timer recording or 1 hour after the playback starts in timer playback. However, another unit will not be turned on or off.

Timer and sleep operation (continued)

■ Sleep 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.

(Maximum: 3 hours - Minimum: 1 minute)

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

- 3 Press the MEMORY/SET button.
- 4 Your system will enter the power stand-by mode automatically after the preset time has elapsed.
The volume will be turned down 1 minute before the sleep operation finishes.

To cancel the sleep operation:

Press the ON/STAND-BY button whilst the sleep timer is set.

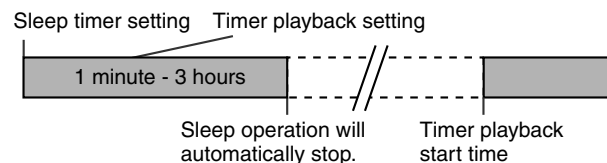
To confirm the remaining sleep time:

Press the TIMER/SLEEP button whilst the sleep timer is set. The remaining sleep time is displayed for about 5 seconds.

■ To use timer and sleep operation together

Example: To fall asleep and wake up to the same radio station
You can play back the same source only (the function cannot be switched).

- 1 Set the sleep time (see left, steps 1 - 3).
- 2 Whilst the sleep timer is set, set the desired playback time (steps 4 - 6, pages 25 - 26).



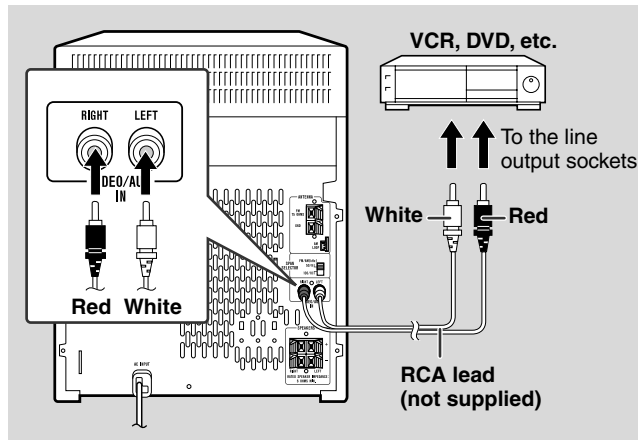
Caution:

When using the cassette deck, be sure the tape length is long enough to perform both functions. If you want to sleep and wake up listening to a tape, and the length of the tape is shorter than the sleep timer setting, timer playback will not be possible.

Enhancing your system

CD-E800W

The connection lead is not included. Purchase a commercially available lead as shown below.



■ Listening to the playback sounds from VCR, DVD, etc.

- 1 Use a connection lead to connect the VCR, DVD, etc. to the VIDEO/AUX IN sockets.

When using video equipment, connect the audio output to this unit and the video output to a television.

- 2 Press the ON/STAND-BY button to turn the power on.
- 3 Press the VIDEO/AUX button.
- 4 Play the connected equipment.

Note:

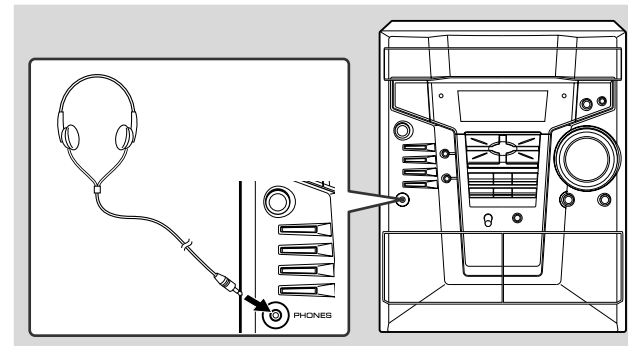
To prevent noise interference, place this unit away from a television.

■ To record on a tape

- 1 Insert a cassette in the TAPE 2 cassette compartment.
- 2 Press the VIDEO/AUX button.
- 3 Press the REC PAUSE (TAPE-2 ●||) button.
- 4 Press the ► (▶ ◀) or ◀ [(TAPE-2) ◀] button.
- 5 Play the VCR, DVD, etc.

■ Headphones

- Before plugging in or unplugging the headphones, reduce the volume.
- 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.
- Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the VOLUME control.



Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.

If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause
<ul style="list-style-type: none"> ● The clock is not set to the correct time. 	<ul style="list-style-type: none"> ● Did a power failure occur? Reset the clock. (Refer to page 12.)
<ul style="list-style-type: none"> ● When a button is pressed, the unit does not respond. 	<ul style="list-style-type: none"> ● Set this unit to the power stand-by mode and then turn it back on. ● If the unit still malfunctions, reset it. (Refer to page 30.)
<ul style="list-style-type: none"> ● No sound is heard. 	<ul style="list-style-type: none"> ● Is the volume level set to "0"? ● Are the headphones connected? ● Are the speaker wires disconnected? ● Is the karaoke mode set to "L-CH", "R-CH" or "V-CANCEL"?

■ CD player

Symptom	Possible cause
<ul style="list-style-type: none"> ● Playback does not start. ● Playback stops in the middle or is not performed properly. 	<ul style="list-style-type: none"> ● Is the disc loaded upside down? ● Does the disc satisfy the standards? ● Is the disc distorted or scratched?
<ul style="list-style-type: none"> ● Playback sounds are skipped, or stopped in the middle of a track. 	<ul style="list-style-type: none"> ● Is the unit located near excessive vibrations? ● Is the disc very dirty? ● Has condensation formed inside the unit?

■ Tuner

Symptom	Possible cause
<ul style="list-style-type: none"> ● The radio makes unusual noises continuously. 	<ul style="list-style-type: none"> ● Is the unit placed near the TV or computer? ● Is the FM aerial or AM loop aerial placed properly? Move the aerial away from the AC power lead if it's located nearby.

■ Cassette deck

Symptom	Possible cause
<ul style="list-style-type: none"> ● Cannot record. 	<ul style="list-style-type: none"> ● Is the erase-prevention tab removed?
<ul style="list-style-type: none"> ● Cannot record tracks with proper sound quality. ● Cannot erase completely. 	<ul style="list-style-type: none"> ● Is it a normal tape? (You cannot record on a metal or CrO₂ tape.)
<ul style="list-style-type: none"> ● Sound skipping. 	<ul style="list-style-type: none"> ● Is there any slack? ● Is the tape stretched?
<ul style="list-style-type: none"> ● Cannot hear treble. ● Sound fluctuation. 	<ul style="list-style-type: none"> ● Are the capstans, pinch rollers, or heads dirty?
<ul style="list-style-type: none"> ● Cannot remove the tape. 	<ul style="list-style-type: none"> ● If a power failure occurs during playback, the heads remain engaged with the tape. Do not open the compartment with great force.

■ Karaoke

Symptom	Possible cause
<ul style="list-style-type: none"> The vocal part of a multiplexed disc is not heard. 	<ul style="list-style-type: none"> Is the karaoke mode set to "L-CH", "R-CH" or "V-CANCEL"?

■ Remote control

Symptom	Possible cause
<ul style="list-style-type: none"> The remote control does not operate. 	<ul style="list-style-type: none"> Is the AC power lead of the unit plugged in? Is the battery polarity correct? Are the batteries dead? Is the distance or angle incorrect? Does the remote control sensor receive strong light?

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

- Set the unit to the stand-by mode and turn the power on again.
- If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

Note:

If neither operation above restores the unit, clear all the memory by resetting it.

■ Clearing all the memory (reset)

- Press the ON/STAND-BY button to enter the power stand-by mode.
- Whilst pressing down the ► button and the X-BASS/DEMO button, press the ON/STAND-BY button until "CLEAR AL" appears.



Caution:

This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

■ 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 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 with a soft cloth before operating the unit.

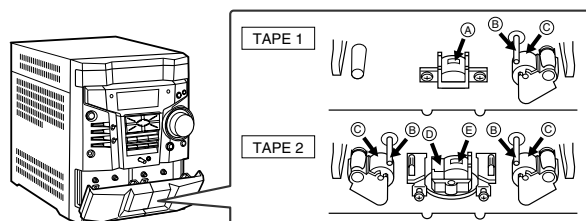
■ Before transporting the unit

- Press the ON/STAND-BY button to turn the power on.
- Press the CD button.
- Press the OPEN/CLOSE ▲ button to open the disc tray. Remove all CDs inserted in the unit.
- Press the OPEN/CLOSE ▲ button to close the disc tray. Make sure that "NO DISC" is displayed.
- Press the ON/STAND-BY button to enter the stand-by mode, and then unplug the AC power lead from the wall socket.

Maintenance

■ Cleaning the tape-handling parts

- 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.
- When cleaning the heads, pinch rollers, etc., unplug the unit which contains high voltages.



- A Playback head
 B Capstan
 C Pinch roller
 D Erase head
 E Recording/Playback head

- 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.

■ Cleaning the cabinet

Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

Caution:

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the unit. It may cause malfunctions.

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 110/127/220/230 - 240 V, 50/60 Hz
Power consumption	140 W
Dimensions	Width: 270 mm (10-5/8") Height: 330 mm (13") Depth: 355 mm (13-15/16")
Weight	8.8 kg (19.4 lbs.)

■ Amplifier

Output power	MPO: 620 W (310 W + 310 W) (10 % T.H.D.) RMS: 340 W (170 W + 170 W) (10 % T.H.D.) RMS: 280 W (140 W + 140 W) (0.9 % T.H.D.)
Output terminals	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 k ohms Microphone: 1 mV/600 ohms

■ CD player

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

■ Tuner

Frequency range	FM: 88 - 108 MHz AM: 531 - 1,602 kHz
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■ Cassette deck

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	0.3 % (WRMS)

■ Speaker

Type	3-way 4-speaker system with passive radiator Super tweeter × 2 5 cm (2") tweeter 16 cm (6-1/2") woofer 16 cm (6-1/2") passive radiator
Maximum input power	340 W
Rated input power	170 W
Impedance	6 ohms
Dimensions	Width: 277 mm (10-7/8") Height: 330 mm (13") Depth: 273 mm (10-3/4")
Weight	5.1 kg (11.2 lbs./each)

MEMO

SHARP

WARRANTY

Consumer Electronic Products

Congratulations on Your Purchase!

This Sharp product is warranted against faults in materials and manufacture for a period of twelve (12) months from the date of original purchase.

If service is required during the warranty period, please contact your nearest Sharp Approved Service Centre. These repairs would be carried out at no charge to the owner, subject to the conditions specified herein.

The owner is responsible for any transportation and insurance costs if the product has to be returned for repair.

This warranty does not extend to accessories, defects or injuries caused by or resulting from causes not attributable to faulty parts or the manufacture of the product, including but not limited to, defect or injury caused by or resulting from misuse, abuse, neglect, accidental damage, improper voltage, liquid spillage, vermin infestation, software, or any alterations made to the product which are not authorised by Sharp.

Please retain your sales documentation, as this should be produced to validate a warranty claim.

This warranty is in addition to and in no way limits, varies or excludes any express and implied rights and remedies under any relevant legislation in the country of sale.

SHARP

IMPORTANT DO NOT RETURN THIS PAGE TO SHARP

For your reference, please enter the particulars of your purchase below and retain, with your purchase documentation.

Model No. _____

Serial No. _____

Date of Purchase _____

Retailer _____

FOR LOCATION ENQUIRIES WITHIN

AUSTRALIA

REGARDING YOUR
LOCAL

SHARP APPROVED SERVICE CENTRE

VISIT OUR WEBSITE AT

www.sharp.net.au

OR CALL SHARP

LOCAL CALL **1 300 135 022**

SHARP CORPORATION OF AUSTRALIA PTY. LIMITED
A.B.N. 40 003 039 405
1 Huntingwood Drive Blacktown NSW 2148

FOR PRODUCTS PURCHASED IN

NEW ZEALAND

CONTACT YOUR SELLING DEALER/RETAILER
OR CALL

SHARP CUSTOMER SERVICES

TELEPHONE: **09 - 573 0111**

FACSIMILE: 09 - 573 0113

WEB: www.sharpnz.co.nz

SHARP CORPORATION OF NEW ZEALAND LIMITED
59 Hugo Johnston Drive, Penrose Auckland

IMPORTANT NOTICE: This warranty applies only to products sold in Australia & New Zealand

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