

SHARP

MINI COMPONENT SYSTEM

MODEL
CD-XP200W

OPERATION MANUAL

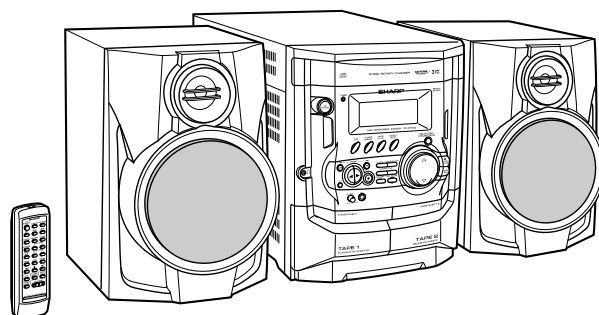
COMPACT
disc
DIGITAL AUDIO

CDXP200WA_FRONT

1

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-XP200W Mini Component System consisting of CD-XP200W (main unit) and CP-XP200 (speaker system).



CD-R/RW
Playable **3000**
DISC

02.4.2, 5:31 PM

Special notes

Warning:

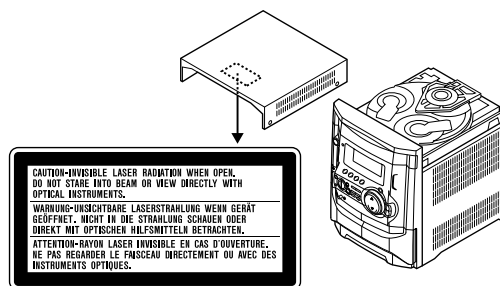
- When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit. When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the timer mode or remote control.
- This unit contains no user serviceable parts. Never remove 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.

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



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:


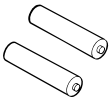
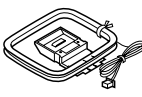
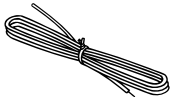
Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to the relevant laws in your country.

Accessories

CD-XP200W

ENGLISH

Please confirm that the following accessories are included.

 <p>Remote control × 1</p>	 <p>"AAA" size battery (UM-4, R03, HP-16 or similar) × 2</p>	 <p>AM loop aerial × 1</p>	 <p>FM aerial × 1</p>
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Note:

Only the above accessories are included.

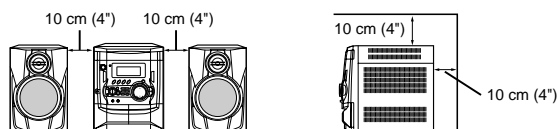
Contents

	Page		Page
■ General Information		■ Tape Playback	
Precautions	3	Listening to a cassette tape (TAPE 1)	17
Controls and indicators	4 - 6	Listening to a cassette tape (TAPE 2)	18
■ Preparation for Use		■ Karaoke	
System connections	7 - 9	Playing karaoke	19, 20
Remote control	9	■ Tape Recording	
■ Basic Operation		Recording from a CD (CDs)	21
General control	10	Recording from the radio	22
Setting the clock	11	Dubbing from tape to tape	22
■ CD Playback		Erasing recorded tapes	22
Listening to a CD (CDs)	12, 13	■ Advanced Features	
Repeat play	14	Timer and sleep operation	23, 24
Random play	14	Enhancing your system	25
Programmed play	14	■ References	
■ Radio		Troubleshooting chart	26, 27
Tuning	15	Maintenance	27
Memorising a station	16	Specifications	28
To recall a memorised station	16		
To scan the preset stations	16		
To erase entire preset memory	16		

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 generates 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, to avoid this do not turn the volume on to full at switch on and listen to music at moderate levels.

■ Condensation

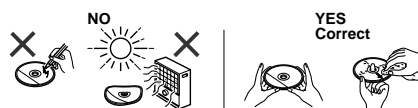
Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, tape heads, etc.) or on the transmitter on the remote control.

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.

■ 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.

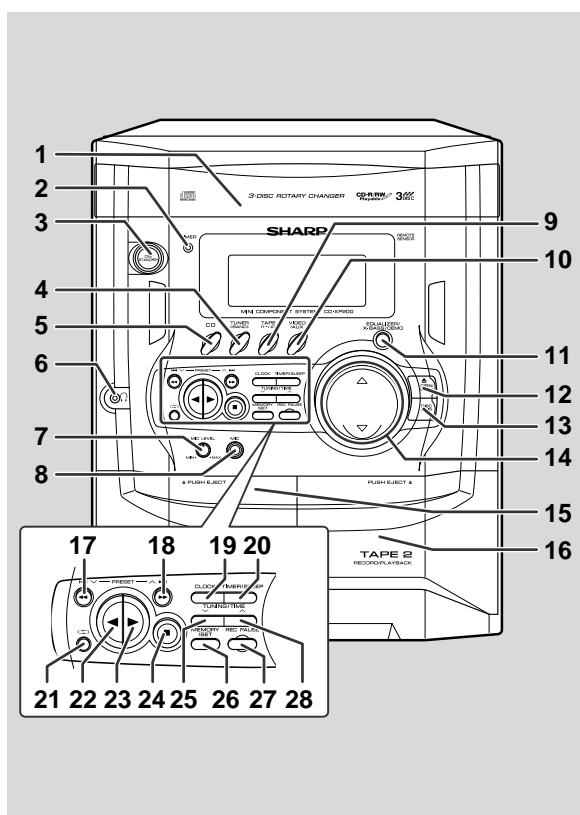
- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. 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-XP200W

ENGLISH



■ Front panel

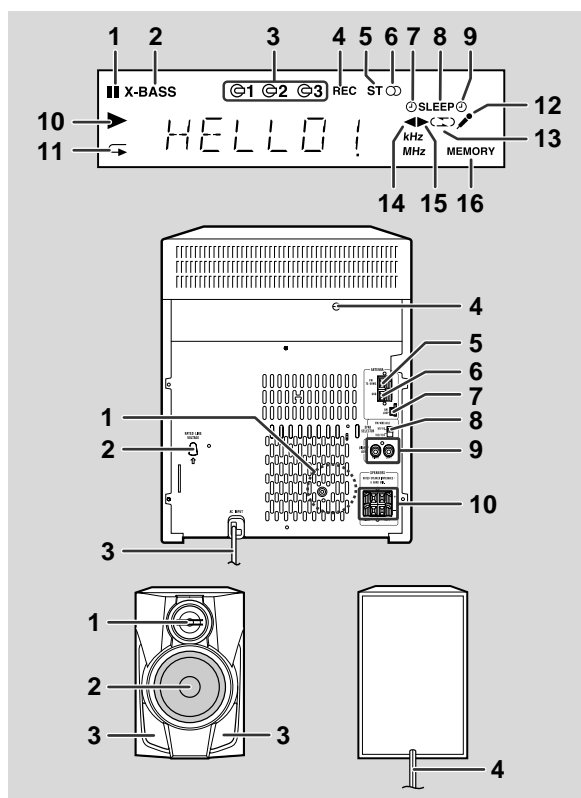
	Reference page
1. Disc Tray	12
2. Timer Set Indicator	24
3. On/Stand-by Button	10
4. Tuner (Band) Button	15
5. CD Button	12, 21
6. Headphone Socket	25
7. Microphone Level Control	19
8. Microphone Socket	19
9. Tape (1 - 2) Button	17, 18, 22
10. Video/Auxiliary Button	23, 25
11. Equaliser Mode Select/Extra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

■ Description of remote control (See page 6.)

E-4

General Information
- Controls and Indicators -

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

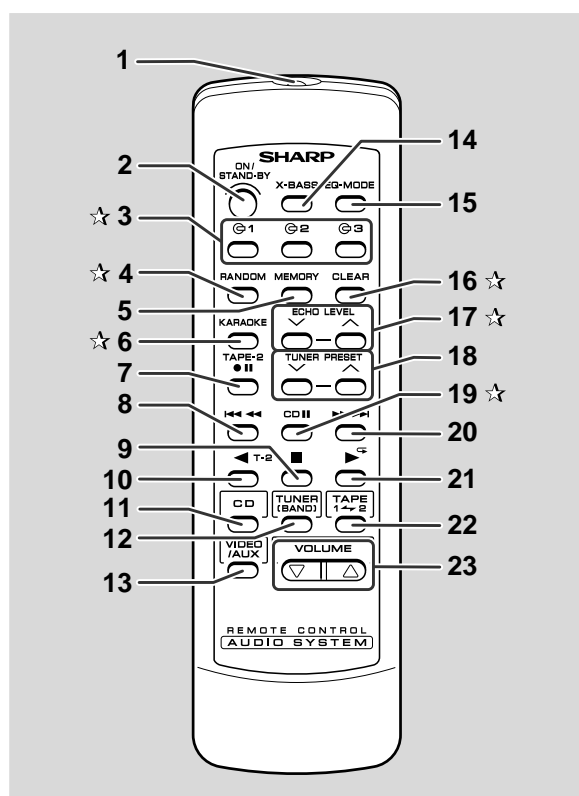
- | | |
|---|-------------|
| 1. Cooling Fan | |
| 2. AC Voltage Selector | 8 |
| 3. AC Power Lead | 7, 8 |
| 4. Transport Screw | 7, 27 |
| 5. FM 75 Ohms Aerial Terminal | 7 |
| 6. FM Aerial Earth Terminal | 7 |
| 7. AM Loop Aerial Socket | 7 |
| 8. Span Selector Switch | 9 |
| 9. Video/Auxiliary (Audio Signal) Input Sockets | 25 |
| 10. 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. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Wire



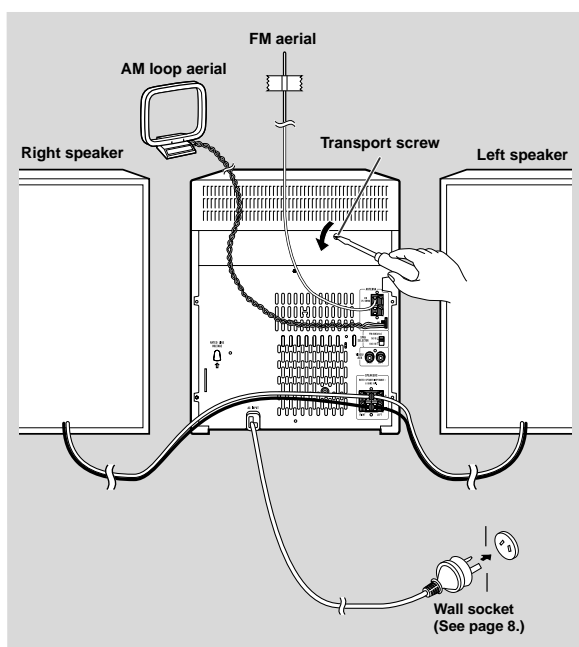
■ Remote control

	Reference page
1. Remote Control Transmitter	9
2. On/Stand-by Button	9
3. Disc Number Select Buttons	12, 14, 21
4. CD Random Button	14
5. CD Memory Button	14
6. Karaoke Mode Button	20
7. Tape 2 Record Pause Button	21, 22
8. CD Track Down or Fast Reverse, Tape 2 Fast Wind Button	13, 18
9. CD or Tape Stop Button	12, 17, 18
10. Tape 2 Reverse Play Button	18
11. CD Button	12, 21
12. Tuner (Band) Button	15
13. Video/Auxiliary Button	25
14. Extra Bass Button	10
15. Equaliser Mode Select Button	10
16. CD Clear Button	14
17. Echo Level Up and Down Buttons	19
18. Tuner Preset Up and Down Buttons	16
19. CD Pause Button	12
20. CD Track Up or Fast Forward, Tape 2 Fast Wind Button	13, 18
21. CD Play or Repeat, Tape 1 Play, Tape 2 Forward Play Button	12, 14, 17, 18
22. Tape (1 → 2) Button	17, 18, 22
23. Volume Up and Down Buttons	10

Buttons with "*" mark in the illustration can be operated on the remote control only.

■ Battery installation for remote control (See page 9.)

System connections



■ Removing the transport screw

Before turning the power on, be sure to remove the transport screw on the back of the unit using a flat head screwdriver or a coin.

Note:

This screw is required when transporting the unit again. Please keep it (see page 27).

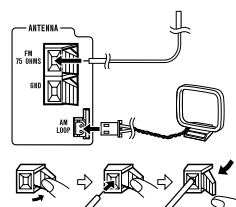
■ Aerial connection

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).

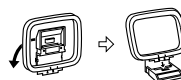


Note:

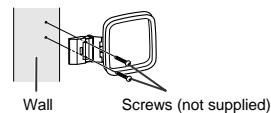
Placing the aerial on the stereo system or near the AC power lead may cause noise pickup. Place the aerial away from the stereo system for better reception.

Installing the AM loop aerial:

< Assembling >

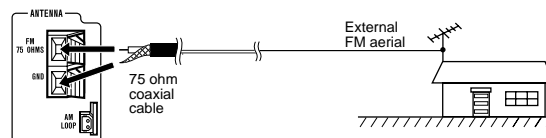


< Attaching to the wall >



External FM aerial:

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

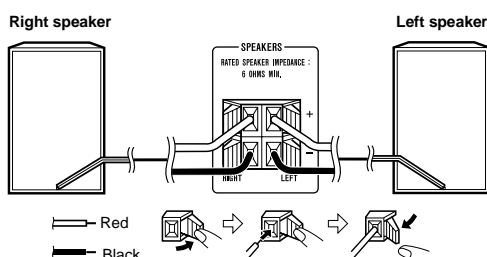


Note:

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

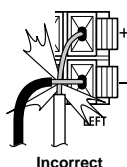
■ Speaker connection

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



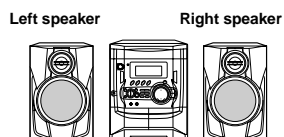
Caution:

- 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 allow any objects to fall into or to be placed in the bass reflex ducts.
- Do not stand or sit on the speakers. You may be injured.



■ Placing the speaker system

There is no distinction between the right and the left speakers.



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.

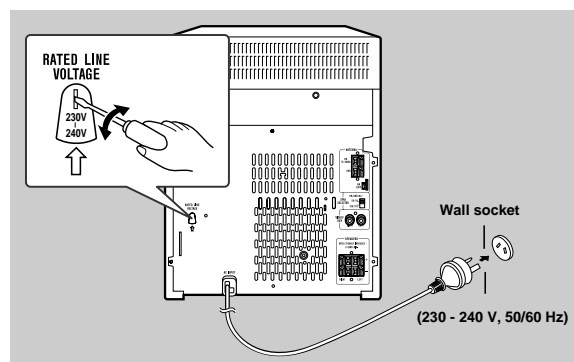
Turn the selector with a screwdriver until the appropriate voltage number appears in the window (110 V, 127 V, 220 V or 230 V - 240 V AC).

■ Connecting the AC power lead

After making all connections, plug the unit. If you plug the unit first, the unit will enter the demonstration mode.

Notes:

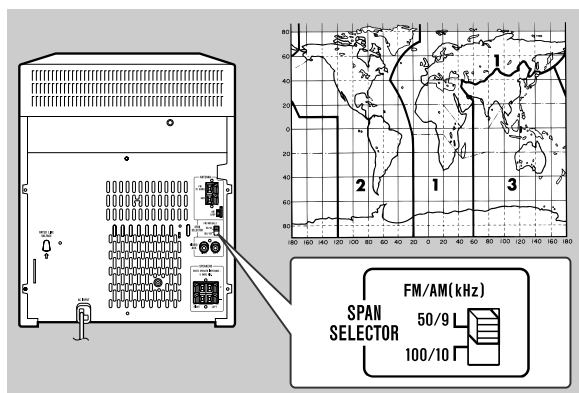
- The unit will start the tape initialisation when plugged in to the AC socket. During this process, initialising sound will be heard and the unit cannot be turned on. Wait until the process is finished.
- Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period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



■ Demonstration mode (See page 10.)

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 CLOCK button and the EQUALIZER/X-BASS/DEMO button, press the ON/STAND-BY button until "CLEAR AL" appears.

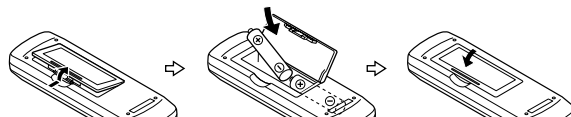
Caution:

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

Remote control

■ Battery installation

- 1 Open 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 \ominus battery terminals.
- 3 Close the battery 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 "AAA" size batteries (UM-4, R03, HP-16 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.

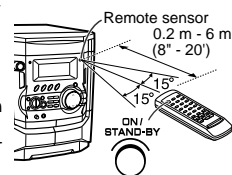
■ Test of the remote control

Check the remote control after checking all connections have been made correctly. (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:

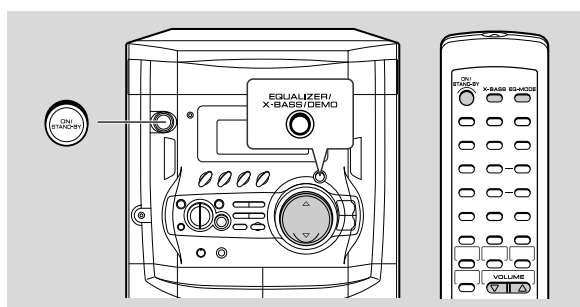
Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy music.



General control

CD-XP200W

ENGLISH



■ Demonstration mode

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

To cancel the demonstration mode:

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

Note:

When the power is on, the EQUALIZER/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.

To set the unit to stand-by mode:

Press the ON/STAND-BY button again.

■ Volume control

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

0 ↔ 1 ↔ 2 29 ↔ 30 ↔ MAXIMUM

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

(Main unit operation)

You can select the extra bass and pre-programmed equaliser 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 repeatedly until the desired sound mode appears.

X-BASS (X-BASS on)	Bass frequencies are emphasised.
FLAT (X-BASS off)	The sound is not modified.
POPS (X-BASS off)	Bass and treble are slightly emphasised.
ROCK (X-BASS off)	Bass and treble are emphasised.
CLASSIC (X-BASS off)	Treble is reduced a lot.
VOCAL (X-BASS off)	Vocals (midrange tones) are emphasised.
JAZZ (X-BASS off)	Treble is cut a little.

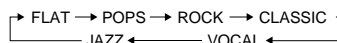
(Remote control operation)

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.

Selecting a pre-programmed equaliser mode:

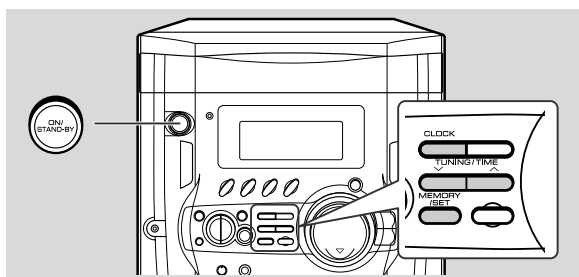
When the EQ-MODE button is pressed, the current mode setting will be displayed. To change to a different mode, press the EQ-MODE button repeatedly until the desired sound mode appears.



Note:

If the EQ-MODE button on the remote control is pressed in the extra bass mode, it will be cancelled automatically.

Setting the clock



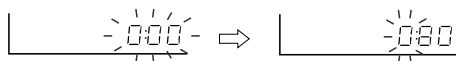
In this example, the clock is set for the 24-hour (0:00) display.

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)

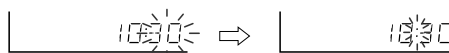
Note that this can only be set when the unit is first installed or it has been reset.
[Refer to "Clearing all the memory (reset)" on page 27 for details.]

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".
- The clock begins counting from "0" seconds. (Seconds are not displayed.) The time display will disappear after a few seconds.

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 time display is flashing, step 3 (for selecting the 24-hour or 12-hour display) will be skipped.

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

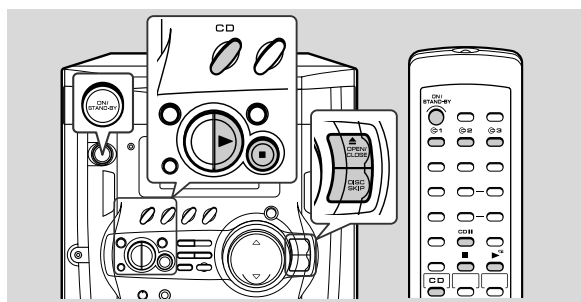
- 1 Clear all the programmed contents. [Refer to "Clearing all the memory (reset)" on page 27 for details.]
- 2 Perform "Setting the clock" from step 1.

Listening to a CD (CDs)

CD-XP200W

ENGLISH

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.



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

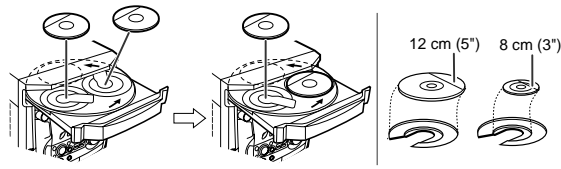
2 Press the CD button.

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

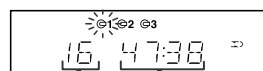
4 Place the CD(s) on the disc tray, label side up.

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") CD(s) in the middle of the disc positions.



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

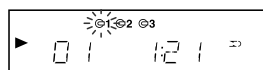


Total number of tracks on the CD whose number is flashing

Total playing time of the CD whose number is flashing

6 To select the CD you want to listen to first, press one of 01 - 03 buttons on the remote control.

7 Press the \blacktriangleright (\blacktriangleright \blacktriangleleft) 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 stop automatically.
- 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.

To interrupt playback:

Press the CD \blacksquare button on the remote control.
To resume playback from the same point, press the \blacktriangleright \blacktriangleleft button.

To stop playback:

Press the \blacksquare button.

To remove the CDs:

Whilst in the stop mode, press the Δ 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 power stand-by mode.

■ General control (See page 10.)

CD Playback
- Listening to a CD (CDs) -

E-12

Listening to a CD (CDs) (continued)

■ 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.

- You can skip to any track by pressing the ►| / ►► button repeatedly until the desired track number appears.

To restart the track being played:

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

- You can skip to any track by pressing the ◀◀ / ◀◀ button repeatedly until the desired track number appears.

Notes:

- You can locate the beginning of a track on a single disc only.
- The ◀◀ ◀◀ or ►| ►► button on the remote control allows you to locate the beginning of a track.

■ 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:

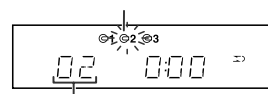
- Normal playback will resume when the ◀◀ / ◀◀ or ►| / ►► button is released.
- You can locate the desired portion on a single disc only.
- When the end of the last track is reached during fast forward, "END" will appear on the display and CD operation will be paused. When the beginning of the first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

■ Starting playback with a desired track

You can play a disc starting with the desired track.

- 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 Press the ◀◀ / ◀◀ or ►| / ►► button to select the desired track.

Selected disc number



Selected track number

You can also select a track by pressing the ◀◀ ◀◀ or ►| ►► button on the remote control.

- 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.

Notes:

- When the DISC SKIP button is pressed during playback, the next disc will begin automatically.
- When one of the ① - ③ buttons on the remote control is pressed during playback, the selected disc will begin automatically.

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 forcibly, "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.

■ 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 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

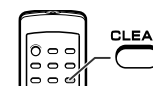
You can choose up to 32 selections for playback in the order you like.

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

To clear the programmed selections:

Press the CLEAR button on the remote control whilst the "MEMORY" indicator is lit.

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.



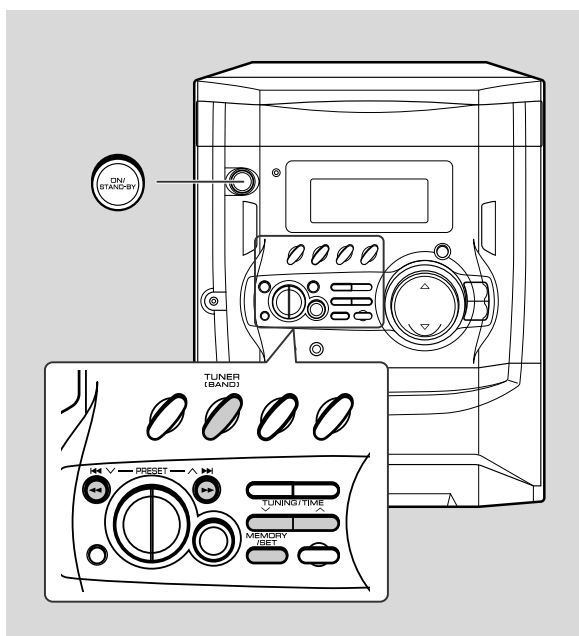
Adding tracks to the programme:

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:

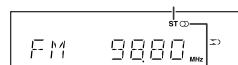
- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, press the TUNING/TIME button again.

To receive an FM stereo transmission:

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

- "ST" 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.

After use:

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

Note:

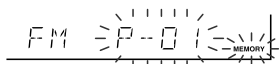
This product can receive FM stereo/FM monaural and AM monaural broadcasts. AM stereo broadcasts will not be played in stereo.

■ 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 15.

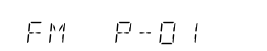
2 Press the MEMORY/SET button to enter the preset tuning saving mode.



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.

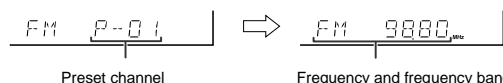
When a new station is stored in memory, the station previously memorised will be erased.

Note:

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

■ To recall a memorised station

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



This operation can be performed by pressing the TUNER PRESET (✓ or ^) button or ◀◀◀ 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 operation can be performed by pressing the TUNER PRESET (✓ or ^) button or ◀◀◀ 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 EQUALIZER/X-BASS/DEMO button, press the ON/STAND-BY button until "TUNER CL" appears.

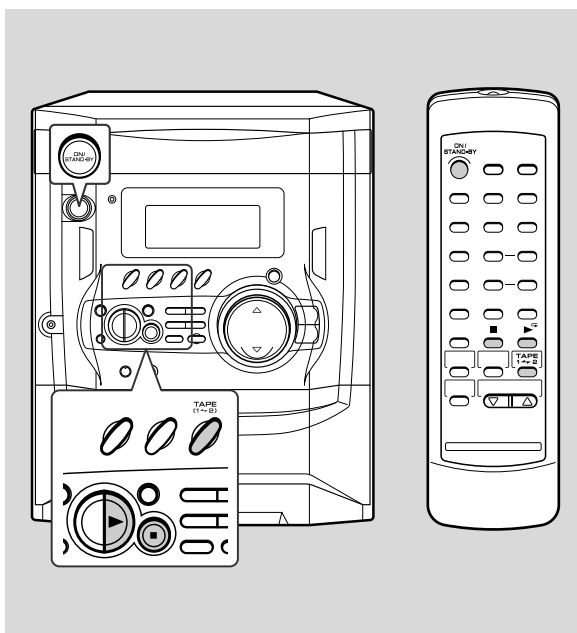
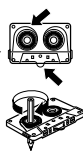


TUNER CL

Listening to a cassette tape (TAPE 1)

Before playback:

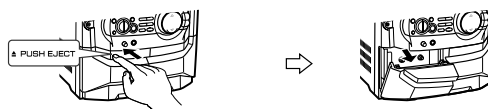
- For playback, use normal or low-noise tapes for the best sound. (Metal or CrO₂ tapes are not recommended.)
- Do not use C-120 tapes or poor-quality tapes, as they may cause malfunctions.
- Before loading a tape into the cassette compartment, tighten the slack with a pen or a pencil.



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.

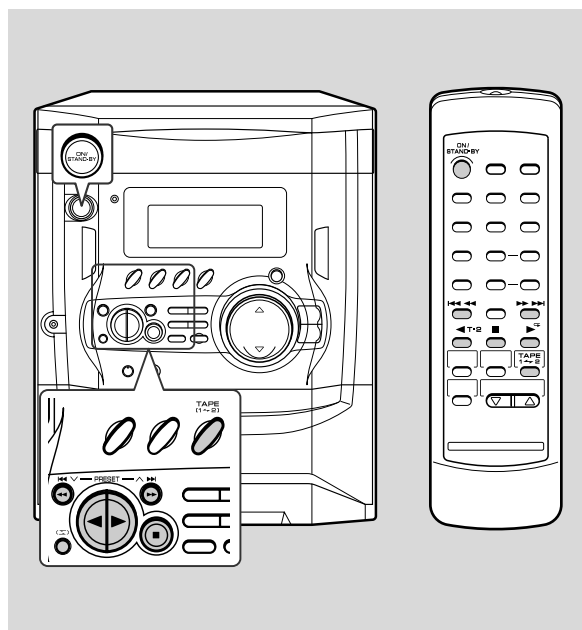
Note:

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

Listening to a cassette tape (TAPE 2)

CD-XP200W

ENGLISH



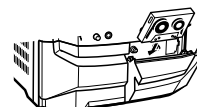
1 Press the ON/STAND-BY button to turn the power on.

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 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. Wait until the power is restored.

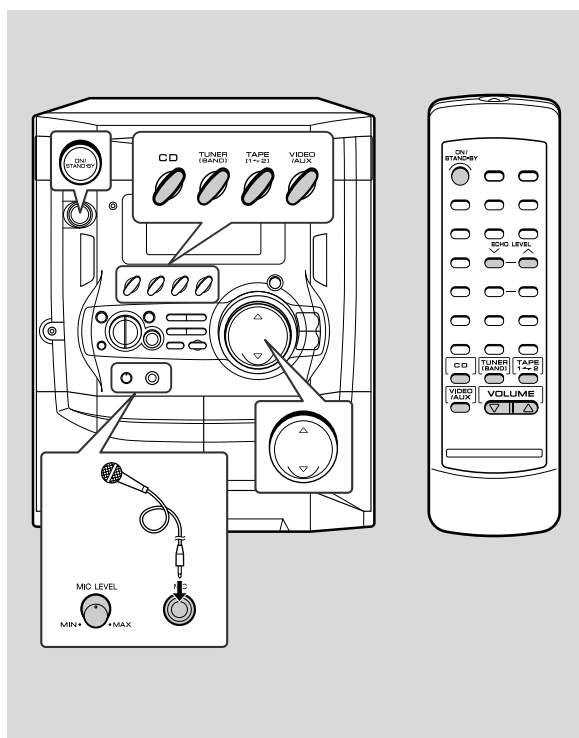
■ General control (See page 10.)

Tape Playback
- Listening to a cassette tape (TAPE 2) -

E-18

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 one of the CD, TUNER (BAND), TAPE (1 -- 2), VIDEO/AUX buttons to select the audio source and play it.**
If you wish to record, start recording in the TAPE 2 compartment. (Refer to pages 21 - 22 for details.)
- 5 Adjust the volume of the audio source using the VOLUME buttons.**
- 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 v button to decrease it.**

Notes:

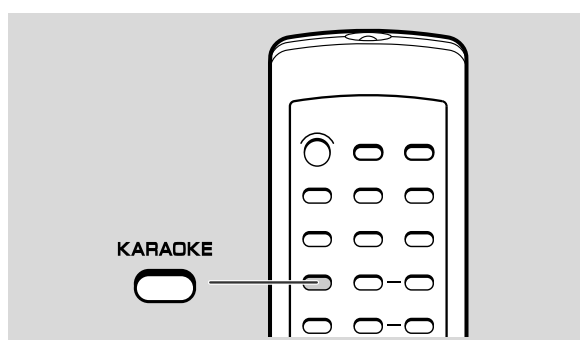
- When you sing too loud through the microphone, your voice may be distorted depending on the devices connected. If this happens, lower the microphone volume.
- If an extremely sensitive microphone is used, howling may be generated.
- Unidirectional microphone is more appropriate for vocal use.

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 button until the desired audio mode is displayed. Each time the KARAOKE button is pressed, the mode will change as follows:

STEREO → L-CH → R-CH → V-CANCEL
 ↑

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, "F" 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 button until "V-CANCEL" appears in the display. "F" 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.

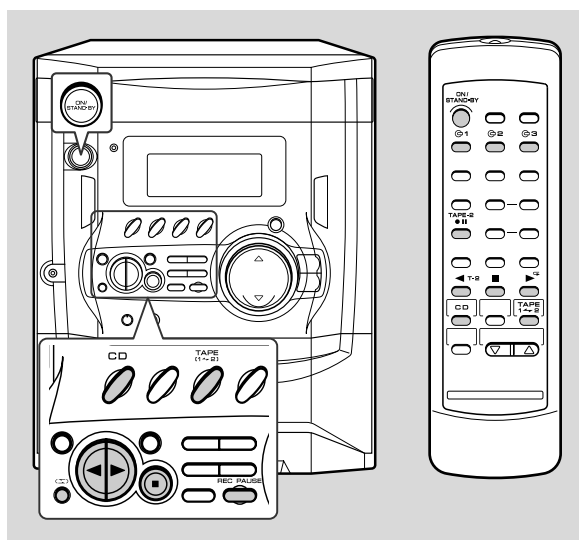
Notes on sound multiplexed karaoke discs:

- 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 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.



Note:

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

Recording can be operated in the TAPE 2 compartment. The TAPE 1 is for playback only.

■ 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) button.**
Recording will be paused.
- 7 Press the (▶ ◀) button to record on side A, or the (◀ T-2) button for side B.**
 - To record on both sides, begin on 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 14.)
- 2 Press the REC PAUSE (TAPE-2) button.
- 3 Press the (▶ ◀) button to record on side A, or the (◀ T-2) button for side B.






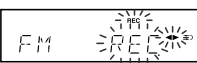


To stop recording:

Press the button.
The CD and tape will stop.

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 15.)**
- 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  button to choose one side or both sides.**
 ... To record on both sides.
 ... To record on only one side.
 
- 4 Press the REC PAUSE (TAPE-2 ) button.**
Recording will be paused.

- 5 Press the  (▶) button to record on side A, or the  (◀) button to record on side B.**
To record on both sides, begin on 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 ) button.

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

To stop recording:

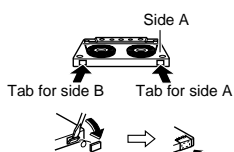
Press the  button.

Note:

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

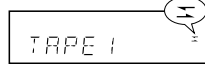

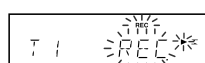

Erase-prevention tab of cassette tapes:

- 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.




■ 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 ~ 2) button until "TAPE 1" appears on the display.**
The reverse mode will be set to "1".

- 4 Press the REC PAUSE (TAPE-2 ) button.**
Recording will be paused.

- 5 Press the  (▶) button.**

To stop dubbing:

Press the  button.

TAPE 1 and TAPE 2 will simultaneously stop.

■ Erasing recorded tapes

- Load the tape to be erased into the TAPE 2 cassette compartment with the side to be erased facing toward you.
- Press the TAPE (1 ~ 2) button until "TAPE 2" appears on the display.
- Set the  button to "1" to erase only one side and to "2" to erase both sides.
- Press the REC PAUSE (TAPE-2 ) button.
- Press the  (▶) button to erase side A, or the  (◀) button to erase side B. To erase both sides, begin from 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:

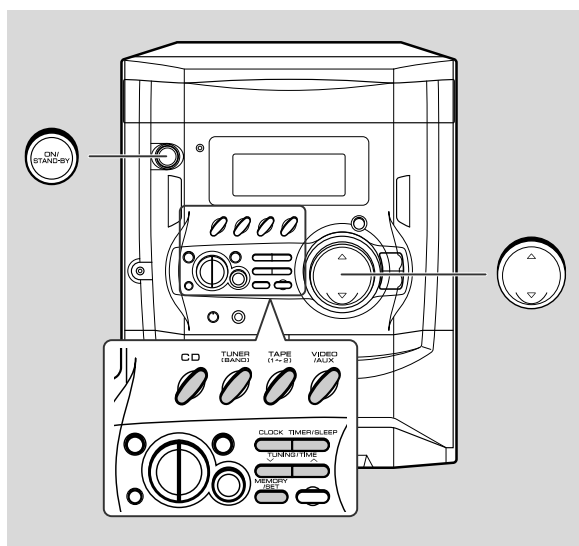
The unit turns on and plays the desired source (CD, tuner, tape) at the preset time.

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 on time.



- 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: CD, TUNER (BAND) or TAPE (1 → 2).

To select the timer recording source: TUNER (BAND).

When you selected the TUNER (BAND), tune in to the desired station.

- 3 Adjust the volume using the VOLUME buttons.

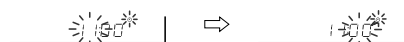
Do not turn the volume up too high.

- 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.

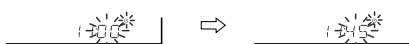


- 5 Press the TUNING/TIME (✓ or ^) button to specify the hour to start, then press the MEMORY/SET button.

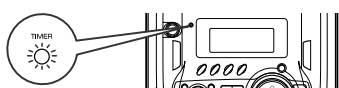


The illustrations show the timer playback setting.

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



- 7 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.

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

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

- 9 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.

Notes:

- Once the time is set, the setting will be retained until a new time is entered.
- When performing timer playback or recording using another unit connected to the VIDEO/AUX 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.

■ 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:

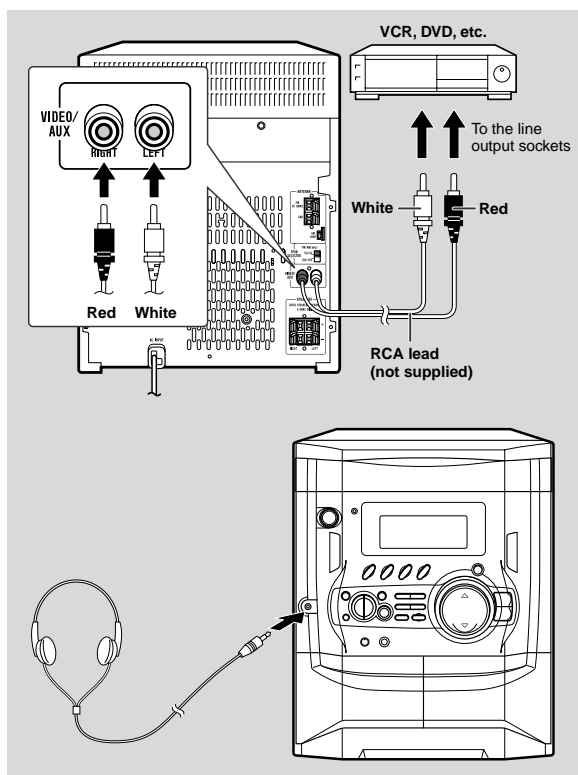
Press the TIMER/SLEEP button whilst the sleep timer is set. The remaining sleep time is displayed for about 5 seconds.

Note:

Once the sleep time is set, it will remain unchanged until a new time is entered.

Enhancing your system

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 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 hum 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 ●II) button.
- 4 Press the ► (►) or ◀ (◀ T-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 buttons.

Troubleshooting chart

CD-XP200W

ENGLISH

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
● The clock is not on time.	● Did a power failure occur? Reset the clock. (Refer to page 11.)
● When a button is pressed, the unit does not respond.	● 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 27.)
● No sound is heard.	● 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
● Playback does not start.	● Is the disc loaded upside down?
● Playback stops in the middle or is not performed properly.	● Does the disc satisfy the standards? ● Is the disc distorted or scratched?
● Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations? ● Is the disc very dirty? ● Has condensation formed inside the unit?

■ Tuner

Symptom	Possible cause
● Radio makes unusual noise consecutively.	● 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 or the unit if located near.

■ Cassette deck

Symptom	Possible cause
● Cannot record.	● Is the erase-prevention tab removed?
● Cannot record tracks with proper sound quality.	● Is it a normal tape? (You cannot record on a metal or CrO ₂ tape.)
● Cannot erase completely.	
● Sound skipping.	● Is there any slack? ● Is the tape stretched?
● Cannot hear treble.	● Are the capstans, pinch rollers, or heads dirty?
● Sound fluctuation.	
● Cannot remove the tape.	● If a power failure occurs during playback, the heads remain engaged with the tape. Do not open the compartment forcibly. Wait until electricity resumes.

■ Karaoke

Symptom	Possible cause
● The vocal part of a multiplexed disc is not heard.	● Is the karaoke mode set to "L-CH", "R-CH" or "V-CANCEL"?

■ Remote control

Symptom	Possible cause
● The remote control does not operate.	● Is the AC power lead of the unit plugged in? ● Is the battery polarity respected? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Does the remote control sensor receive strong light?

References
- Troubleshooting chart -

E-26

Troubleshooting chart (continued)

■ 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:

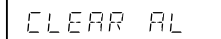
- 1 Set the unit to the stand-by mode and turn the power on again.
- 2 If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

Note:

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

■ Clearing all the memory (reset)

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



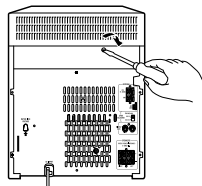
Caution:

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

■ Before transporting the unit

On the back of this unit is equipped with a transport screw in order to prevent damage during transportation.

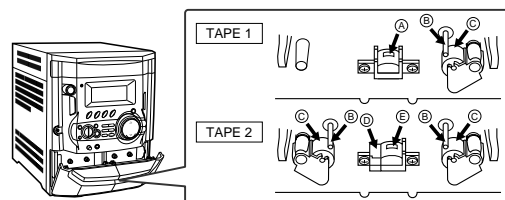
- 1 Press the ON/STAND-BY button to turn the power on.
- 2 Press the CD button.
- 3 Press the Δ OPEN/CLOSE button to open the disc tray.
Remove all CDs inserted in the unit.
- 4 Press the Δ OPEN/CLOSE button to close the disc tray.
Make sure that "NO DISC" is displayed.
- 5 Press the ON/STAND-BY button to enter the stand-by mode, and then unplug the AC power lead from the wall socket.
- 6 Insert the transport screw into the back of the unit and tighten it with a flat head screw-driver or a coin.



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

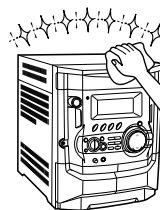
- After long use, the deck's heads and capstans may become magnetised, causing poor sound. Demagnetise these parts once every 30 hours of playing/recording time by using a commercial tape head demagnetiser. Read the demagnetiser's instructions carefully before use.

■ 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

CD-XP200W

ENGLISH

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	133 W
Dimensions	Width: 270 mm (10-5/8") Height: 330 mm (13") Depth: 355 mm (13-15/16")
Weight	7.4 kg (16.3 lbs.)

■ Amplifier

Output power	MPO: 240 W (120 W + 120 W) (10 % T.H.D.) RMS: 150 W (75 W + 75 W) (10 % T.H.D.) RMS: 104 W (52 W + 52 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	2-way type speaker system 5 cm (2") Tweeter 13 cm (5-1/8") Woofer
Maximum input power	150 W
Rated input power	75 W
Impedance	6 ohms
Dimensions	Width: 220 mm (8-11/16") Height: 330 mm (13") Depth: 222 mm (8-6/8")
Weight	3.0 kg (6.6 lbs.)/each

References
- Specifications -

E-28

MEMO

MEMO



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