SHARP

MICRO COMPONENT SYSTEM

MODEL

XL-MP150E

OPERATION MANUAL

COMPACT disc DIGITAL AUDIO
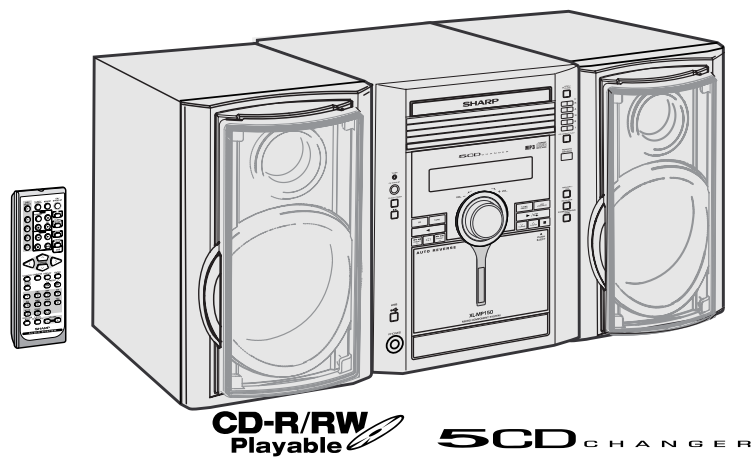
USB TERMINAL

MP3 with NAVIGATION

Plays Windows™ Media™

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.

XL-MP150E Micro Component System consisting of XL-MP150E (main unit) and CP-MP150E (speaker system).

CD-R/RW Playable   5CD CHANGER

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, shall 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.
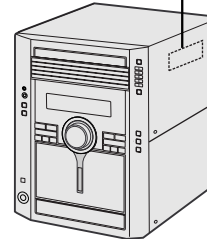
For other countries:

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: GaAIAs
Wavelength: 795 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH
OPTICAL INSTRUMENTS.

WARNUNG-UNSICHTBARE LASERSTRAHLUNG WENN GERÄT
GEÖFFNET. NICHT IN DIE STRAHLUNG SCHAUEN ODER
DIREKT MIT OPTISCHEN HILFSMITTELN BETRACHTEN.

ATTENTION-RAYON LASER INVISIBLE EN CAS D'OUVERTURE.
NE PAS REGARDER LE FAISCEAU DIRECTEMENT OU AVEC DES
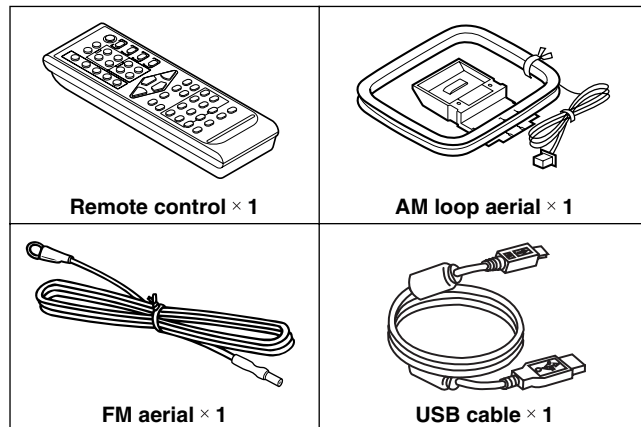INSTRUMENTS OPTIQUES.

2

Special note

Supply of this product does not convey a license nor imply any right to distribute content created with this product in revenue-generating broadcast systems (terrestrial, satellite, cable and/or other distribution channels), revenue-generating streaming applications (via Internet, intranets and/or other networks), other revenue-generating content distribution systems (pay-audio or audio-on-demand applications and the like) or on revenue-generating physical media (compact discs, digital versatile discs, semiconductor chips, hard drives, memory cards and the like). An independent license for such use is required. For details, please visit http://mp3licensing.com.
MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

Accessories

Please confirm that the following accessories are included.

Remote control × 1	AM loop aerial × 1
FM aerial × 1	USB cable × 1

Note:
Only the above accessories are included.

Contents

XL-MP150E
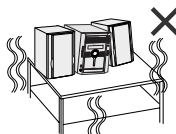
*General Information*

3

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.

10 cm (4")   10 cm (4")

10 cm (4")

10 cm (4")
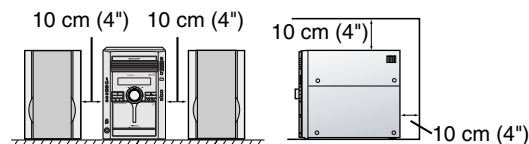
● Use the unit on a firm, level surface free from vibration.

● 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.
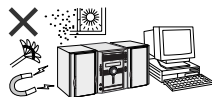
● Do not place anything on top of the unit.

● 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.
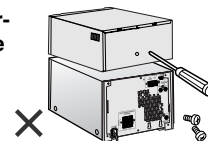
● In case of an electrical storm, unplug the unit for safety.
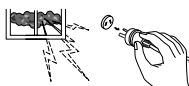
● Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.
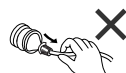
● **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**

● The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.
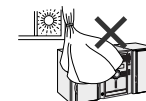
● No naked flame sources, such as lighted candles, should be placed on the apparatus.

● 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).
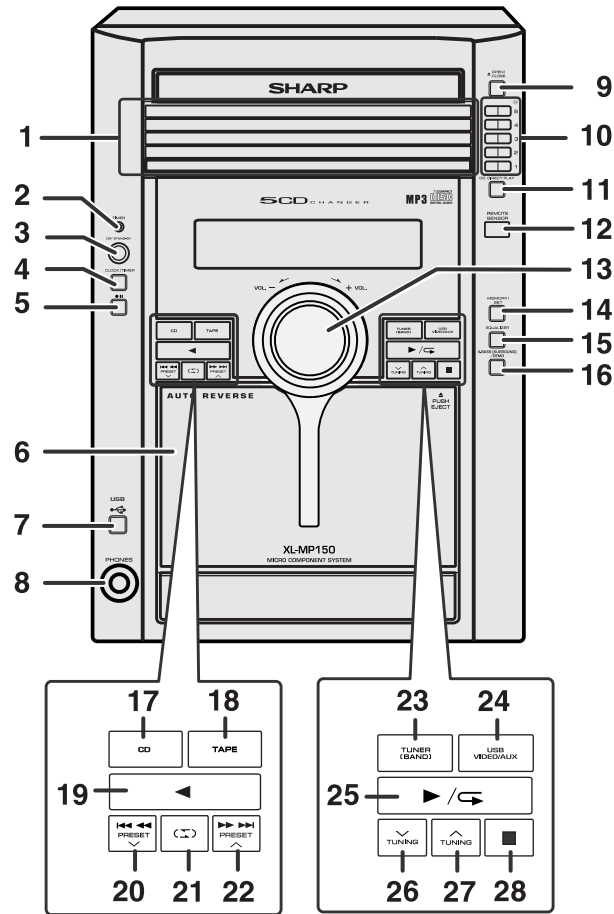
Warning:
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of 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, which occurs whilst turning the unit on with the volume control setting up high, or whilst continually listening at high volumes.

General Information

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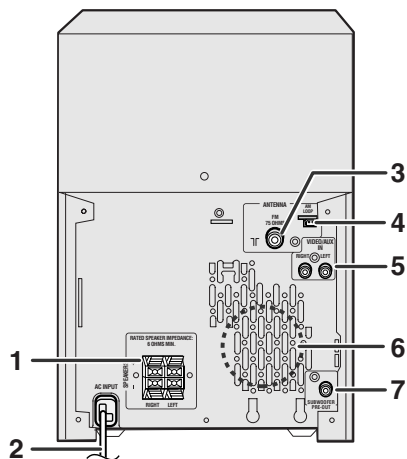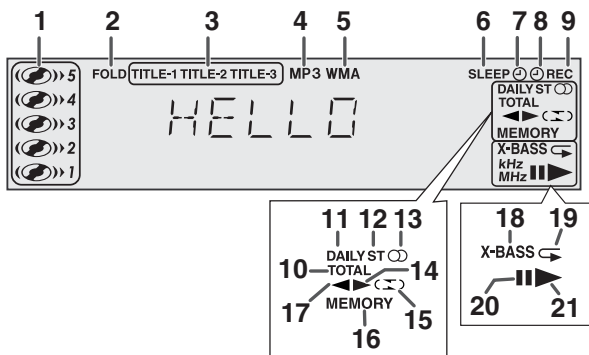# Controls and indicators

■ Front panel

Reference page

General Information

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Controls and indicators (continued)

■ Display

Reference page

1. Disc Number Indicators 15
2. MP3/WMA Folder Indicator 20
3. MP3/WMA Title Indicators 20
4. MP3 Indicator 15
5. WMA Indicator 15
6. Sleep Indicator 38
7. Timer Play Indicator 36
8. Timer Recording Indicator 36
9. Tape Record Indicator 28
10. MP3/WMA Total Indicator 21
11. Daily Timer Indicator 36
12. FM Stereo Mode Indicator 24
13. FM Stereo Receiving Indicator 24
14. Tape Forward Play Indicator 26
15. Tape Reverse Mode Indicator 26
16. Memory Indicator 19
17. Tape Reverse Play Indicator 26
18. Extra Bass Indicator 12
19. Disc Repeat Play Indicator 18
20. Disc Pause Indicator 16
21. Disc Play Indicator 15

■ Rear panel

Reference page

1. Speaker Terminals 9
2. AC Power Lead 10
3. FM 75 Ohm Aerial Terminal 10
4. AM Loop Aerial Socket 9
5. Video/Auxiliary (Audio Signal) Input Sockets 39
6. Cooling Fan 10
7. Subwoofer Pre-output Socket 40

■ Speaker system

1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Wire

■ Remote control

General Information

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System connections

Preparation for Use

Make sure to unplug the AC power lead before any connections.

■ **Aerial connection (see page 9)**

FM aerial

AM loop aerial

Right speaker

Left speaker

ANTENNA

FM
75 OHMS

VIDEO/AUX

RIGHT LEFT

RATED SPEAKER IMPEDANCE:
6 OHMS MIN.

RIGHT LEFT

SUBWOOFER
PRE-OUT
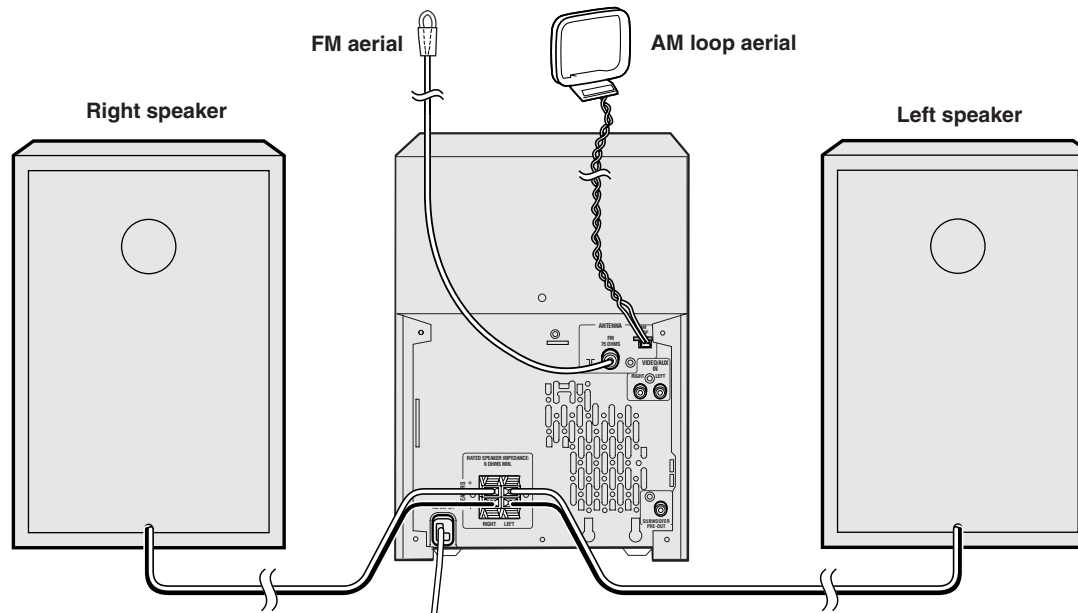
■ **Speaker connection (see page 9)**

Wall socket
(AC 230 - 240 V, 50 Hz)

■ **AC power connection (see page 10)**

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■ 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).
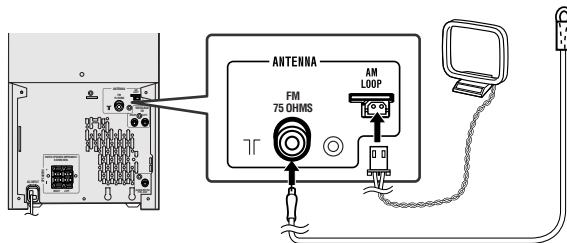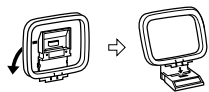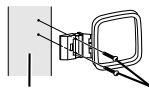
Note:

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 >

Wall   Screws (not supplied)

■ Speaker connection

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

⊏══⊐ Red   ■━━ Black
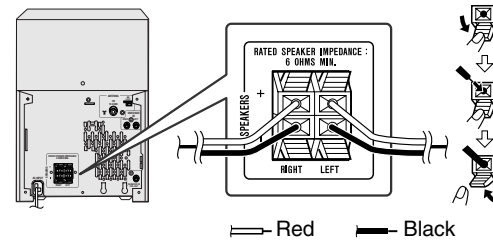
Caution:

● 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.
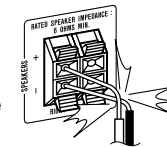
Incorrect

■ Speaker grilles are removable

Make sure nothing comes into contact with the speaker diaphragm when you remove the speaker grilles.

Preparation for Use

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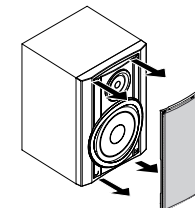
System connections (continued)

■ AC power connection

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

Wall socket
(AC 230 - 240 V, 50 Hz)

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.

Cooling fan:

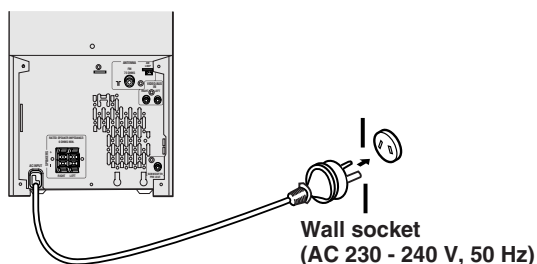This main unit is built with a cooling fan at the rear of the unit for improved cooling. Please do not cover the opening of the fan with any obstacles, as this will block proper ventilation.
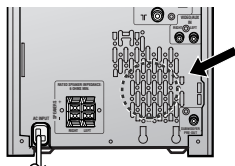
■ Demonstration mode

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

HELLO

X-BASS (SURROUND)
/DEMO

To cancel the demonstration mode:
When the unit is in the power stand-by mode (demonstration mode), press the X-BASS (SURROUND)/DEMO button. The unit will enter the low power consumption mode.
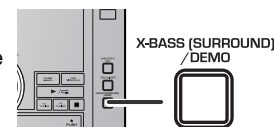
To return to the demonstration mode:
When the unit is in the power stand-by mode, press the X-BASS (SURROUND)/DEMO button again.

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

■ External FM aerial

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

ANTENNA
AM LOOP
FM 75 OHMS

External FM aerial
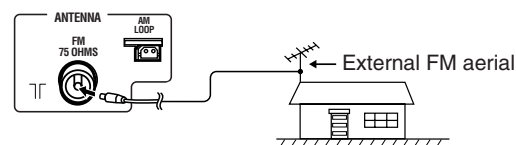
Remote control

■ Battery installation

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

Batteries are not included.

1 **Open the battery cover.**
2 **Insert the batteries according to the direction indicated in the battery compartment (back of the battery cover).**
   When inserting or removing the batteries, push them towards the ⊖ battery terminals.
3 **Close 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 will not be used for long periods of time. This will prevent potential damage due to battery leakage.
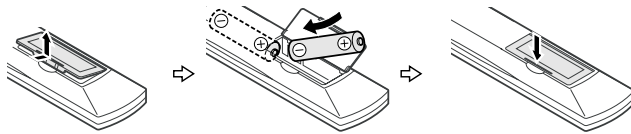
Caution:
● Do not use rechargeable batteries (nickel-cadmium battery, etc.).
● Installing the batteries incorrectly may cause the unit to malfunction.

Battery removal:
Open the battery cover and pull up the battery to take out.

Notes concerning use:
● Replace the batteries if the operating distance is reduced or if the operation becomes erratic.
● 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 if this occurs.
● 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 8 - 10).
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.

Remote sensor

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

15° 15°

ON/
STAND-BY

Preparation for Use

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General control

ON/ STAND-BY

EQUALIZER

X-BASS (SURROUND)
/DEMO

VOL –   + VOL

CLEAR/
DIMMER

ON/
STAND-BY

X-BASS
(SURROUND)

EQUALIZER
MODE

VOLUME
–   +
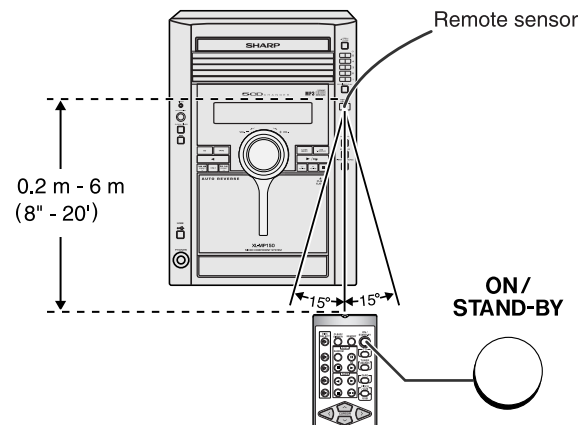
■ To turn the power on
Press the ON/STAND-BY button to turn the power on.

After use:

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

■ Illumination light control
When the power is turned on, light illuminates around the display. To turn on/off the light, hold down the CLEAR/DIMMER button on the remote control for 2 seconds or more.

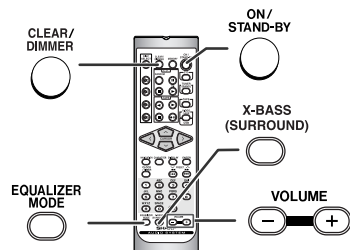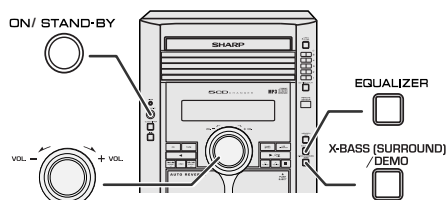## ■ Volume auto fade-in
If you turn off and on the main unit with the volume set to 27 or higher, the volume starts at 16 and fades in to the last set level.

■ Volume control
Main unit operation:
When the VOL + / - control is turned clockwise, the volume will increase. When it is turned anti-clockwise, the volume will decrease.
Remote control operation:
Press the VOLUME (+ or -) button to increase or decrease the volume.

VOLUME:10   0 ····· 30↔MAXIMUM

■ Surround mode
When the X-BASS (SURROUND)/DEMO [X-BASS (SURROUND)] button is pressed, the unit will enter the surround mode and adjust low bass and high frequency automatically according to volume input. To cancel this mode, press the X-BASS (SURROUND)/ DEMO [X-BASS (SURROUND)] button again.

SURROUND X-BASS ⇔ *OFF*

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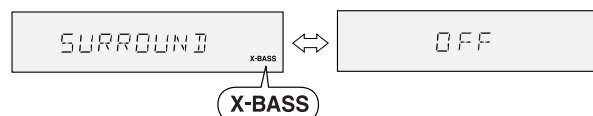
■ Equaliser
When the EQUALIZER (EQUALIZER MODE) button is pressed, the current mode setting will be displayed. To change to a different mode, press the EQUALIZER (EQUALIZER MODE) button repeatedly until the desired sound mode appears.

FLAT	The sound is not modified.
ROCK	For rock music.
CLASSIC	For classical music.
POPS	For pop music.
VOCAL	Vocals are enhanced.
JAZZ	For jazz.
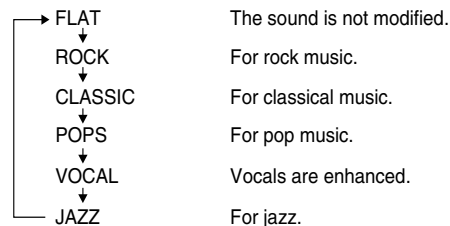
Note:
If the EQUALIZER (EQUALIZER MODE) button is pressed in the surround mode, it will be cancelled automatically.

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/TIMER button.

3 Within 10 seconds, press the ⏮ ◄◄ or ►► ⏭ button to select "CLOCK", and press the MEMORY/SET (MEMORY) button.

4 Press the ⏮ ◄◄ or ►► ⏭ button to select 24-hour or 12-hour display and then press the MEMORY/SET (MEMORY) button.

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

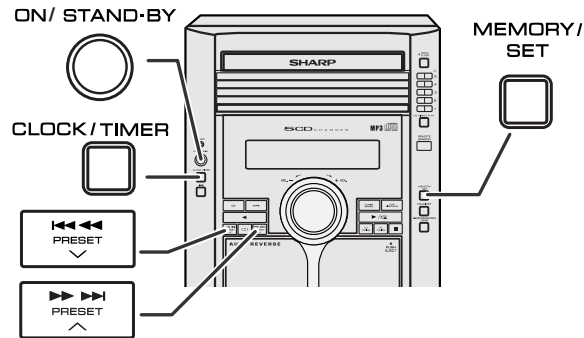"AM 12:00" → The 12-hour display will appear.
(AM 12:00 - PM 11:59)

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

5 Press the ⏮ ◄◄ or ►► ⏭ button to adjust the hour and then press the MEMORY/SET (MEMORY) button.

Press the ⏮ ◄◄ or ►► ⏭ button once to advance the time by 1 hour. Hold it down to advance continuously.

6 Press the ⏮ ◄◄ or ►► ⏭ button to adjust the minutes and then press the MEMORY/SET (MEMORY) button.

Press the ⏮ ◄◄ or ►► ⏭ button once to advance the time by 1 minute. Hold it down to change the time in 5-minute intervals.

To confirm the time display:
[When the unit is in the stand-by mode]
Press the CLOCK/TIMER button.
The time display will appear for about 10 seconds.

[When the power is on]
Press the CLOCK/TIMER button.
Within 10 seconds, press the ⏮ ◄◄ or ►► ⏭ button to display the time.
The time display will appear for about 10 seconds.

Note:
The "CLOCK" will appear or time will flash to confirm the time display when the AC power supply is restored after a power failure or unplugging the unit. If incorrect, readjust the clock as follows.

To readjust the clock:
Perform "Setting the clock" from step 1. If the "CLOCK" does not appear in step 3, step 4 (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 42 for details.]
2 Perform "Setting the clock" from step 1.

Note:
The clock can also be set with the remote control.

Basic Operation

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Listening to a CD or MP3/WMA disc

This system can play back a standard CD, CD-R/RW in the CD format and CD-R/RW with MP3 or WMA files, but cannot record on them. Some audio CD-R and CD-RW discs may not be playable due to the state of the disc or the device that was used for recording.

MP3:
MP3 is a form of compression. It is an acronym which stands for MPEG Audio Layer 3.
MP3 is a type of audio code which is processed by significant compression from the original audio source with very little loss in sound quality.
● This system supports MPEG 1 Layer 3, MPEG 2 Layer 3, and VBR files.
● During VBR file playback, time counter in the display may differ from its actual playback time.

WMA:
WMA files are Advanced System Format files that include audio files which are compressed with Windows Media Audio codec. WMA is developed by Microsoft as an audio format file for Windows Media Player.
● "MP3" or "WMA" indicator will light up after the unit reads information on an MP3 or WMA disc.

Auto power on function:
When you press any of the following buttons, the unit turns on.
● CD button (main unit and remote control): The unit turns on and the "CD" function is activated.
● CD ▶ / ⤶ button on the remote control: The unit turns on and CD playback starts (regardless of the last function).
● ▶ / ⤶ button on the main unit: The unit turns on and playback of the last function starts (CD, TAPE, TUNER, USB/VIDEO/AUX).

Auto power off function:
In the stop mode of CD, MP3 or WMA operation, the main unit enters the stand-by mode after 15 minutes of inactivity.

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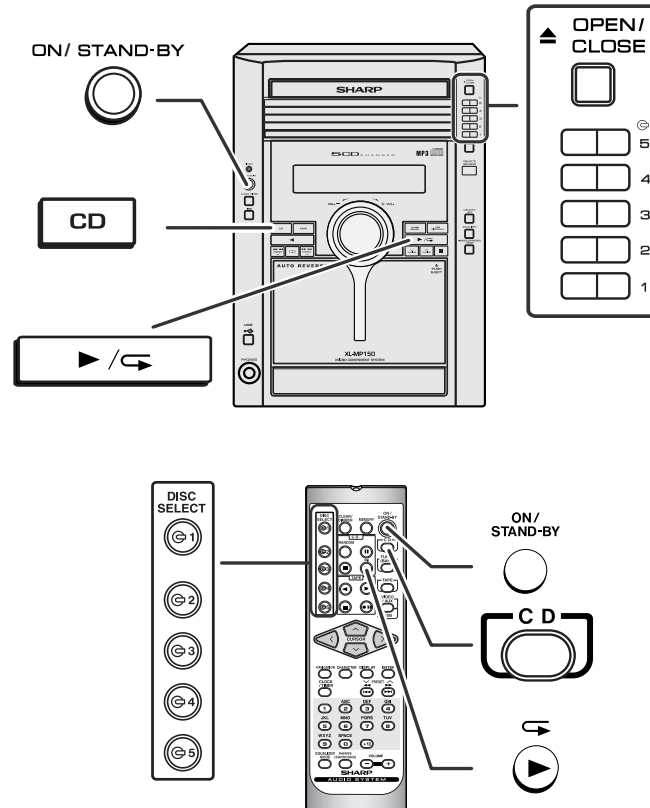
1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the CD button.**

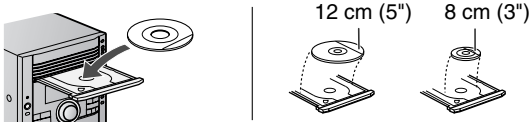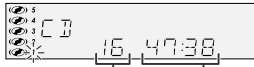**3** **Press the ⊚ 1 button and within 5 seconds, press the ▲ OPEN/CLOSE button to open the disc tray 1.**

4 **Place the disc on the disc tray 1, label side up.**
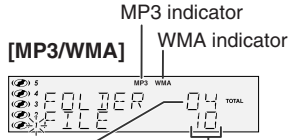
Be sure to place 8 cm (3") disc in the middle of the disc trays.

12 cm (5")   8 cm (3")

5 **Press the ▲ OPEN/CLOSE button to close the disc tray 1.**

MP3 indicator

[CD]   **[MP3/WMA]**   WMA indicator

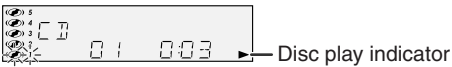| Total number of tracks on the disc | Total playing time of the disc | Total number of folders | Total number of files |

● Due to the structure of the disc information, it takes longer to read an MP3/WMA disc than a normal CD (approximately 20 to 90 seconds).

6 **You can place discs on the trays 2 - 5 by following steps 3 - 5.**

7 **Press the ► / ⊟ button to start playback.**

Disc play indicator

● Playback will begin from track 1 on DISC 1. After that disc finishes playing, the next disc will automatically play.
● After the last track on the fifth disc is played, the unit will stop automatically.
● When there is no disc in one of the disc trays (1 - 5), the empty tray will be skipped to the next tray with a disc.
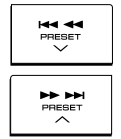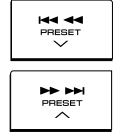
To exchange other discs whilst playing a disc:
Press one of the ⊚ 1 - ⊚ 5 buttons for the stopped disc and within 5 seconds, press the ▲ OPEN/CLOSE button and exchange discs.

To remove the discs:
In the stop mode, press the ⊚ 1 - ⊚ 5 button and within 5 seconds, press the ▲ OPEN/CLOSE button.

Caution:
● Do not place two discs in one disc tray.
● Do not play discs of special shapes (heart, octagon, etc). It may cause malfunctions.
● Do not push the disc tray whilst it is moving.
● If the power fails whilst the tray is open, wait until the power is restored.
● If the disc tray is stopped with force, "ER-CD20" 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.

CD or MP3/WMA disc Playback

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Listening to a CD or MP3/WMA disc (continued)

CD or MP3/WMA disc Playback

■ Various disc functions

Function	Main unit	Remote control	Operation
Play	►/↪	↪ ▶	Press in the stop mode.
Stop	■	■	Press in the playback mode.
Pause	❙❙	❙❙	Press in the playback mode. Press the ► / ↪ button to resume playback from the paused point.
Track up/ Track down	◄◄ ◄◄ PRESET ∨ ►► ►►❙ PRESET ∧	∨PRESET∧ ◄◄ ►► (◄◄) (►►❙)	Press in the playback or stop mode. If you press the button in the stop mode, press the ► / ↪ button to start the desired track.
Fast forward/Fast reverse	◄◄ ◄◄ PRESET ∨ ►► ►►❙ PRESET ∧	∨PRESET∧ ◄◄ ►► (◄◄) (►►❙)	Press and hold down in the playback mode. Release the button to resume playback.

Notes for CD:
● Track up/track down is possible only within individual discs.
● Fast forward/fast reverse is possible only within individual discs.
● 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.

Notes for MP3/WMA discs:
● Track up/track down is possible only within individual discs.
● The sound is heard during fast forward/fast reverse with a CD, but not with an MP3/WMA disc. For fast forward or fast reverse of an MP3/WMA disc, refer to playback time on the display.
● Fast forward/fast reverse is possible only within individual tracks.
● When the end of the track is reached during fast forward, the next track will be played. Playback of the track will begin when its beginning is reached during fast reverse.

■ To change the display (MP3/WMA discs only)

Whilst a disc is playing, press the DISPLAY button.
Each time the button is pressed, the display will change as follows.

DISPLAY

Track number Elapsed playback time

Folder name

File name
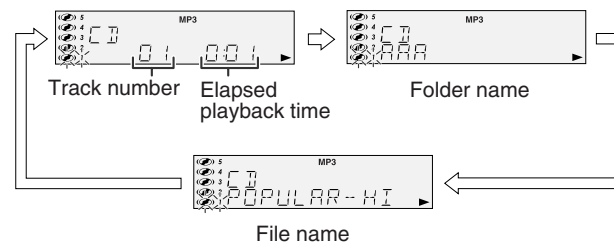
Advanced CD or MP3/WMA disc playback

■ To specify a disc to play

You can play a disc by specifying the disc number.

1 Press one of the ☺ 1 - ☺ 5 buttons to select the desired disc.
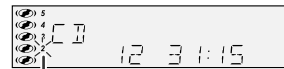
Selected disc number

2 Within 5 seconds, press the CD DIRECT PLAY button on the main unit.
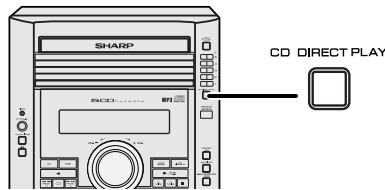
- Playback will begin from track 1 on the chosen disc.
- After the last track on the chosen disc is played, the unit stops automatically.

Note:
If a disc tray with no disc is selected, playback will not start and the disc indicator will go out.

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

■ Direct track search

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

Use the direct search buttons on the remote control to select the desired track whilst playing the selected disc.

Selected track number

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

A. For example, to choose 13
1 Press the "+10" button once.
2 Press the "3" button.
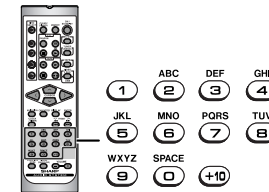
B. For example, to choose 30
1 Press the "+10" button three times.
2 Press the "0" button.

If the direct search buttons are pressed whilst the disc is stopped, press the ► / ⌐ button to start the desired track on the current disc.

Notes:
- A track number higher than the number of tracks on the disc cannot be selected.
- During random play, direct search is not possible.

CD or MP3/WMA disc Playback

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Advanced CD or MP3/WMA disc playback (continued)

■ Repeat play

Repeat play can play all 5 discs, all tracks on a chosen disc, or a programmed sequence continuously.

To repeat all tracks on up to 5 discs:

Press the ► / ↩ button twice.

To repeat desired tracks:

Perform steps 1 - 6 in "Programmed play" section on page 19 and then press the ► / ↩ button twice.
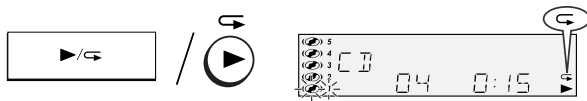
To cancel repeat play:
Press the ► / ↩ button again.
"↩" will go out.

To repeat all tracks on the chosen disc:

1 Press one of the ⊜ 1 - ⊜ 5 buttons.

2 Within 5 seconds, press the CD DIRECT PLAY button twice.

To cancel repeat play:
Press the CD DIRECT PLAY button again.
"↩" will go out.

■ Random play

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

To random play all tracks on up to 5 discs:

Press the RANDOM button on the remote control.
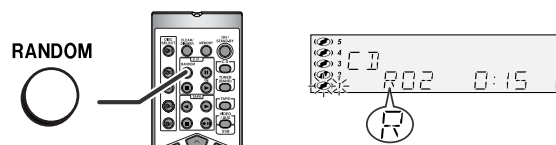
To cancel random play:
Press the ► / ↩ button.
"R" will go out.

To random play all tracks on the chosen disc:

1 Press one of the ⊜ 1 - ⊜ 5 buttons.

2 Within 5 seconds, press the CD DI-RECT PLAY button.

3 Press the RANDOM button on the remote control.
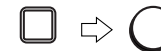
To cancel random play:
Press the CD DIRECT PLAY button.
"R" will go out.
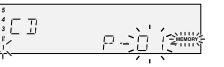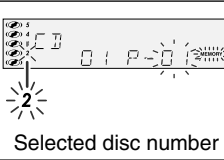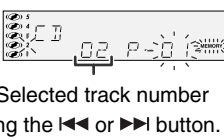
Notes:
● If you press the ►►I button during random play, you can move to the track selected next by the random operation. On the other hand, the I◄◄ button does not allow you to move to the previous track. The beginning of the track being played will be located.
● In random play, the unit will select and play tracks automatically. (You cannot select the order of the tracks.)

Caution:
After performing repeat or random play, be sure to press the ■ (CD ■) 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 the MEMORY/SET (MEMORY) button to enter the programming save mode.**

`PROGRAM` ⇨ `CD P-01`

2	**Press one of the ⊖ 1 - ⊖ 5 buttons to select the desired disc.**

`CD 01 P-01`

Selected disc number

3	**Press the direct search buttons on the remote control to select the desired track.**

`CD 02 P-01`

Selected track number

You can also select a track by pressing the I◄◄ or ►►I button.

4	**Press the MEMORY/SET (MEMORY) button to save the track number.**

`CD 02 P-01`

5	**Repeat steps 2 - 4 for other tracks. Up to 32 tracks can be programmed.**

If you make a mistake, the programmed tracks can be cleared by pressing the CLEAR/DIMMER button.

6	**Press the ■ (CD ■) button.**

The total number in memory will appear.

`MEMORY 08`

7	**Press the ► / ⊟ button to start playback.**

To clear the programmed selections:
Press the CLEAR/DIMMER button on the remote control whilst the "MEMORY" indicator is flashing.
Each time the button is pressed, one track will be cleared, beginning with the last track programmed.
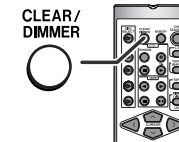
To cancel the programmed play mode:
Whilst in the stop mode and the "MEMORY" indicator is lit, press the CLEAR/DIMMER button on the remote control. The "MEMORY" indicator will disappear and all the programmed contents will be cleared.

Adding tracks to the programme:
If a programme has been previously stored, the "MEMORY" indicator will be displayed. Then follow steps 1 - 6 to add tracks. The new tracks will be stored after the last track of the original programme.

To check which tracks are programmed:
Whilst the unit is stopped in the programmed play mode, press the I◄◄ or ►►I button.

Notes:
● When a disc with programmed tracks is ejected, the programme is automatically cancelled.
● 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 the programme operation, random play is not possible.
● During programmed play, the CD DIRECT PLAY button will not work.

CD or MP3/WMA disc Playback

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MP3/WMA navigation (only for MP3/WMA files)

CD or MP3/WMA disc Playback

MP3/WMA navigation:
You can search and play files by folder or title. For example, when you assign three titles to a file, enter genre (such as jazz) as title 1, album name as title 2, and music title as title 3 to search the file by any title.

- You can search and play files by folder or title 1/2/3 within one MP3/WMA disc (see page 21).
- By entering a name, you can search files by folder or title 1/2/3 within one MP3/WMA disc (see page 22).
- Folders or titles can be programmed within one MP3/WMA disc (see page 23).

When you enter file names on your PC, connect words with hyphens. This product recognizes the first word as title 1, second one as title 2, and third one as title 3. Up to three words can be recognised.

Example:

Folder	(File name)

Title 1	Title 2	Title 3

AAA
(POPULAR-HITS 1-A MUSIC.mp3)
(POPULAR-HITS 2-B MUSIC.mp3)

BBB
(JAZZ-HITS 1-A MUSIC.mp3)
(JAZZ-HITS 2-B MUSIC.mp3)

CCC
(ROCK-HITS 1-A MUSIC.mp3)
(ROCK-HITS 2-B MUSIC.mp3)
(ROCK-HITS 3-C MUSIC.mp3)
(ROCK-HITS 4-D MUSIC.mp3)

NAVIGATION   CHARACTER   ENTER   CURSOR

Folder   Title 1   Title 2   Title 3

FOLD TITLE-1 TITLE-2 TITLE-3
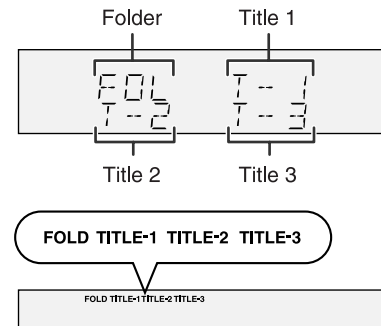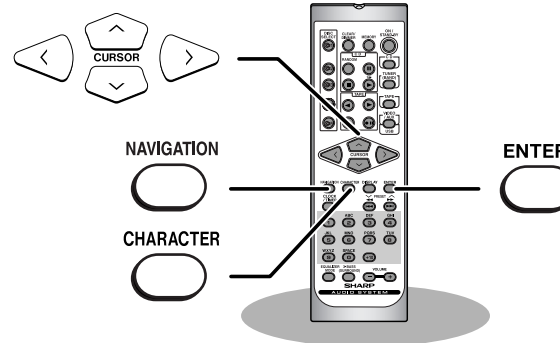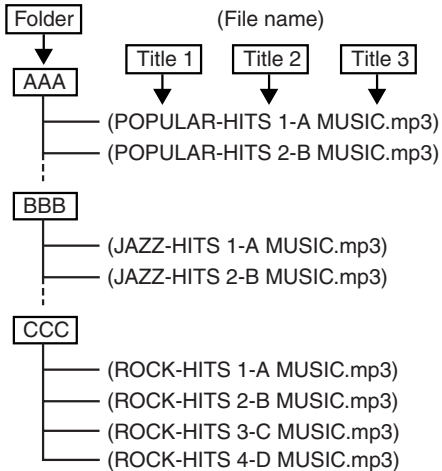
Notes:
- MP3 files must have the extension ".mp3".
- WMA files must have the extension ".wma".
- Up to 100 folders or 300 files can be read on the unit. If either limit is exceeded, no more folders/files are displayed.
- This unit recognises and displays up to 48 characters for folder names, and up to 32 characters for title 1/2/3.
- All file/folder names appear in uppercase.

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■ File search (by folder or title 1/2/3)

You can search and play files by folder or title 1/2/3 within one MP3/WMA disc.

1 Press one of the ☺ 1 - ☺ 5 buttons to select a disc tray containing an MP3/WMA disc.

2 Press the ► / ⌐ button, and the unit starts to read the MP3/WMA disc.

3 Press the CD ■ button to stop playback.

"NAVI READ" appears and the display shows the total number of folders and files on the selected disc.

MP3 indicator
WMA indicator
Total number of folders   Total number of files
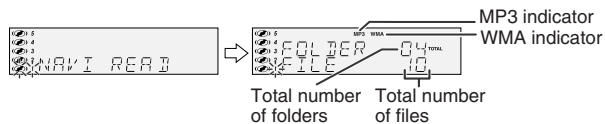
4 Press the NAVIGATION button.

5 Press the ⟨, ⟩, ∧ or ∨ cursor button on the remote control to select "FOL", "T-1", "T-2" or "T-3". To search files by folder name, select "FOL" (will flash).

Folder   Title 1

Title 2   Title 3
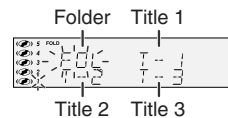
The following steps describe file search by folder:

6 Press the ENTER button.

The total number of folders (or titles) appears for 2 seconds, and names of the first 2 folders (or titles) are displayed.

Folder name

● The NAVIGATION button allows you to go one step back.
● Press the DISPLAY button to check the number of files.

7 Use the ∧ or ∨ cursor button to scroll and select a folder (or title), and then press the ENTER button.

Folder name

If you press the ► / ⌐ button instead of the ENTER button, all files in the selected folder (or title) are played.

8 Use the ∧ or ∨ cursor button to scroll and select a file.

File name

9 Press the ► / ⌐ button to start playback.

The unit plays from the selected file to the last file in the selected folder (or title), and the previous display returns.

File search by title 1/2/3:
● In step 5, select "T-1", "T-2" or "T-3" and follow the same steps as file search by folder.
● The unit searches all files on the disc, regardless of the folder.

To stop playback:
Press the CD ■ button.

To exit the MP3/WMA navigation mode:
In the stop mode, press the CD ■ button.

Notes:
● In the MP3/WMA navigation mode, direct play and direct search functions are disabled.
● If a folder, title or file name does not appear, or appears incorrectly, remove and reinsert the disc and try again.
● If you press the RANDOM button in the stop mode, the MP3/WMA navigation mode will be cancelled.

CD or MP3/WMA disc Playback

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MP3/WMA navigation (only for MP3/WMA files) (continued)

■ Character search (for folder or title 1/2/3)

By entering a name, you can search files by folder or title 1/2/3 within one MP3/WMA disc.

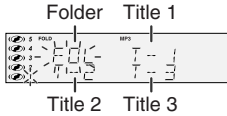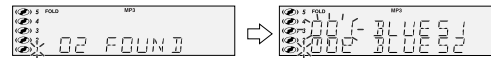|	
1	**Perform steps 1 - 3 in "File search (by folder or title 1/2/3)" on page 21.**
2	**Press the NAVIGATION button.**
3	**Press the** < **,** > **,** ∧ **or** ∨ **cursor button on the remote control to select "FOL", "T-1", "T-2" or "T-3". To search files by folder name, select "FOL" (will flash).**
4	**Press the CHARACTER button for 2 seconds.**
	The display will be ready for editing characters.
	1st row: String table
	2nd row: Input editor (8 digits)
5	**Press the** < **or** > **cursor button to select the desired alphabet.**
	Press the ◄◄ or ►► button to go to the next page of character display.
6	**Press the CHARACTER button and the active character will be entered in the 2nd row of the display.**
	To delete an entered character, move the cursor to the character with the ∧ or ∨ button and press the CLEAR/DIMMER button on the remote control.
7	**Repeat steps 5 and 6 to enter characters.**
	In the folder (or title) name search, you do not have to enter the full name. The unit searches for names beginning with the entered characters.

Folder   Title 1

Title 2   Title 3

8	**When finished, press the ENTER button. The unit searches for the same name within folders (or titles).**
	If the search word is not in the folder (or title) name, "NOT FOUND" appears and the menu returns.
9	**Use the** ∧ **or** ∨ **cursor button to scroll and select a folder (or title).**
10	**Press the** ► **/** ⌐ **button to start playback.**
	All files in the selected folder (or title) are played, and the previous display returns.

To exit the MP3/WMA navigation mode:
In the stop mode, press the CD ■ button.

Notes:
● The unit searches regardless of the case, and names found will appear in uppercase.
● Some symbols do not appear properly.

Character entry with direct buttons:

The direct buttons on the remote control can also be used for character entry.
In step 5 on the left, use buttons 0 - 9 to enter alphabets.
Alphabet types change as you press a button.
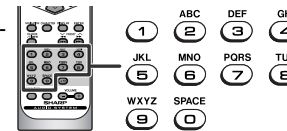
For example, press "2" four times to enter "C".

2 ⟶ A ⟶ B ⟶ C

Characters:

1	2 ABC	3 DEF	4 GHI	5 JKL	6 MNO	7 PQRS	8 TUV	9 WXYZ	0 ⸬

⸬ : indicates a space.

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■ Programmed play (for folder, title 1/2/3)

Folders or titles can be programmed within one MP3/WMA disc. Folder, title 1, title 2 and title 3 cannot be programmed together simultaneously.

1	**Perform steps 1 - 3 in "File search (by folder or title 1/2/3)" on page 21.**
2	**Press the NAVIGATION button.**
3	**Press the $<$, $>$, $\wedge$ or $\vee$ cursor button on the remote control to select "FOL", "T-1", "T-2" or "T-3" and then press the ENTER button.** The total number of folders (or titles) appears for 2 seconds, and names of the first 2 folders (or titles) are displayed.
4	**Press the $\wedge$ or $\vee$ cursor button to select the desired folder (or title) and then press the MEMORY/SET(MEMORY) button.** The folder (or title) is memorised with all the files.
5	**Repeat step 4 for other folders (or titles).** Up to 10 folders (or 10 titles) can be programmed.
6	**Press the ► / ⌐ button to start playback.** Programmed play will always start from the smallest folder (or title) number.

To stop playback:
Press the CD ■ button.
● The programmed contents are not cleared.

To check, add or delete programmed contents:
In the stop mode, select a folder (or title) with the $\wedge$ or $\vee$ cursor button. If the folder (or title) is programmed, "MEMORY" indicator flashes.

Flashes if the folder (or title) is programmed
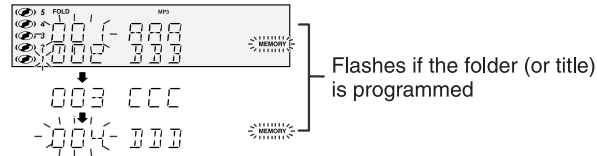
● When you press the MEMORY/SET (MEMORY) button with "MEMORY" flashing, the folder (or title) is removed from the programme.
● If you press the MEMORY/SET (MEMORY) button with "MEMORY" off, the folder (or title) is added to the programme.
● To clear all programmes, press the CLEAR/DIMMER button in the stop mode.

To exit the MP3/WMA navigation mode:
In the stop mode, press the CD ■ button.
● The programmed contents are cleared.

Notes:
● The programmed contents are cleared when you eject a disc, play another disc, switch the function, or enter the stand-by mode with the ON/STAND-BY button.
● During programmed play, the CD DIRECT PLAY button on the main unit will not work.
● If you press the RANDOM button in the stop mode, the MP3/WMA navigation mode will be cancelled.

If tracks are programmed using track numbers (see "Programmed play" on page 19):
In the MP3/WMA navigation mode, only programmes by folder (or title) name are played. When you exit the mode, the programmes by folder (or title) name are cleared.
When you exit the MP3/WMA navigation mode, programmes by track number are cancelled.
(Programmes by track number are cleared when you remove the disc.)

CD or MP3/WMA disc Playback

23

Listening to the radio

ON/ STAND-BY
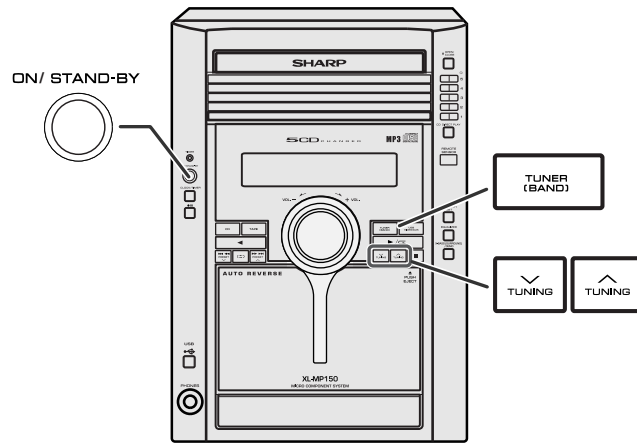
Auto power on function:
When you press any of the following buttons, the unit turns on.
● TUNER (BAND) button (main unit and remote control): The unit turns on and the "TUNER" function is activated.
● ▶ / ⌐ button on the main unit: The unit turns on and playback of the last function starts (CD, TAPE, TUNER, USB/VIDEO/AUX).

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

■ **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 (∨ or ∧) button to tune in to the desired station.**

Manual tuning:

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

Auto tuning:

When the TUNING 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 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.
● 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.

FM stereo mode indicator

FM stereo receiving indicator

24
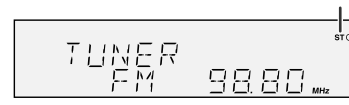
■ Memorising a station

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 24.**
2	**Press the MEMORY/SET (MEMORY) button to enter the preset tuning saving mode.** TUNER FM P-01
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 (MEMORY) button to store that station in memory.** TUNER FM P-01 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 for that preset channel number 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 become disconnected.

■ To recall a memorised station

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

■ To scan the preset stations

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

1   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.
2   Press the PRESET (⌄ or ⌃) button again when the desired station is located.
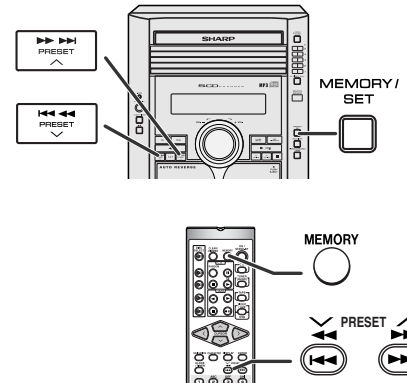
■ To erase entire preset memory

1   Press the ON/STAND-BY button to enter the stand-by mode.
2   Whilst pressing down the ●❚❚ button and the X-BASS (SURROUND)/DEMO button, press the TUNING ⌃ button until "TUNER CL" appears.

Radio

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Listening to a cassette tape

Before playback:
- **For playback, use normal or low-noise tapes for the best sound. (Metal or CrO$_2$ 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.

ON/ STAND-BY

TAPE

▶/↩

◀

■

◀◀ ◀◀
PRESET
⌒⌒
▶▶ ▶▶
PRESET

TAPE

TAPE

ON/
STAND-BY

◀ ▶

■

PRESET
◀◀ ▶▶
I◀◀ ▶▶I

■ Tape playback

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

2 Press the TAPE button.

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

▲ PUSH EJECT
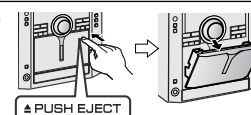
4 Load a cassette into the cassette compartment with side A facing you.
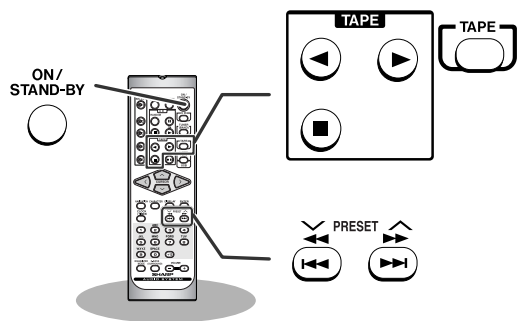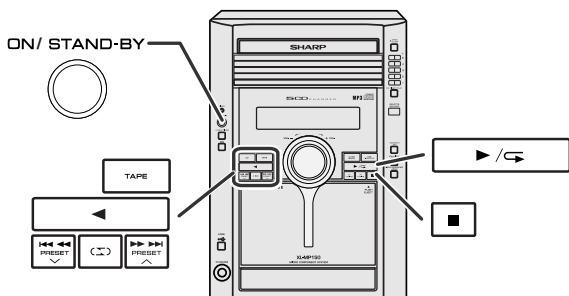
5 Press the ⌒ button to choose one side or both sides.

⌒ ... To listen to both sides.
To play both sides (⌒), start from side A. When playback starts from side B, side A will not be played.

⌒ ... For endless repeat play of both sides.

⌐ ... To listen to one side.

6 Press the ▶ / ↩ (TAPE ▶) button to listen to side A, or the ◀ (TAPE ◀) button for side B.

Forward play Reverse play
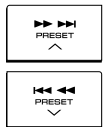
Auto power on function:
When you press any of the following buttons, the unit turns on.
- TAPE button (main unit and remote control): The unit turns on and the "TAPE" function is activated.
- TAPE ▶ button on the remote control: The unit turns on and side A playback starts (regardless of the last function).
- ▶ / ↩ button on the main unit: The unit turns on and playback of the last function starts (CD,TAPE,TUNER,USB/VIDEO/AUX).

Auto power off function:
In the stop mode of tape operation, the main unit enters the stand-by mode after 15 minutes of inactivity.

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■ Various tape functions

Function	Main unit	Remote control	Operation
Side A play-back	▶/⇆	▶	Press in the stop mode.
Side B play-back	◀	◀	Press in the stop mode.
Stop	■	■	Press in the playback, fast forward or fast re-wind mode.
Fast for-ward/Fast rewind	▶▶ ▶▶I PRESET ∧ I◀◀ ◀◀ PRESET ∨	∨ PRESET ∧ ◀◀ ▶▶ I◀◀ ▶▶I	Press in the playback or stop mode.

Caution:
- To remove the cassette, press the ■ (TAPE ■) button, and then open the compartment.
- 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.

Recording on a cassette tape

XL-MP150E

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 CrO$_2$ tapes.**

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 with-out the tab.

Side A

Tab for side B   Tab for side A
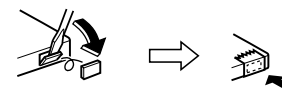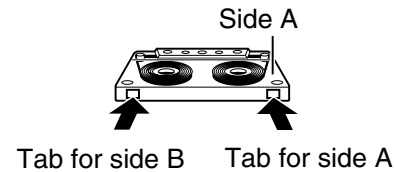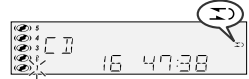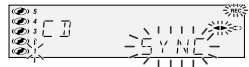
Tape Recording

Recording on a cassette tape (continued)

ON / STAND·BY

●ΙΙ

CD

◀

◱

ON/
STAND-BY

DISC
SELECT

⊜1

⊜2

⊜3

⊜4

⊜5

⊜5
4
3
2
1

CD DIRECT PLAY

►/⊊

■

C D

TAPE

◀ ►

■ ●ΙΙ
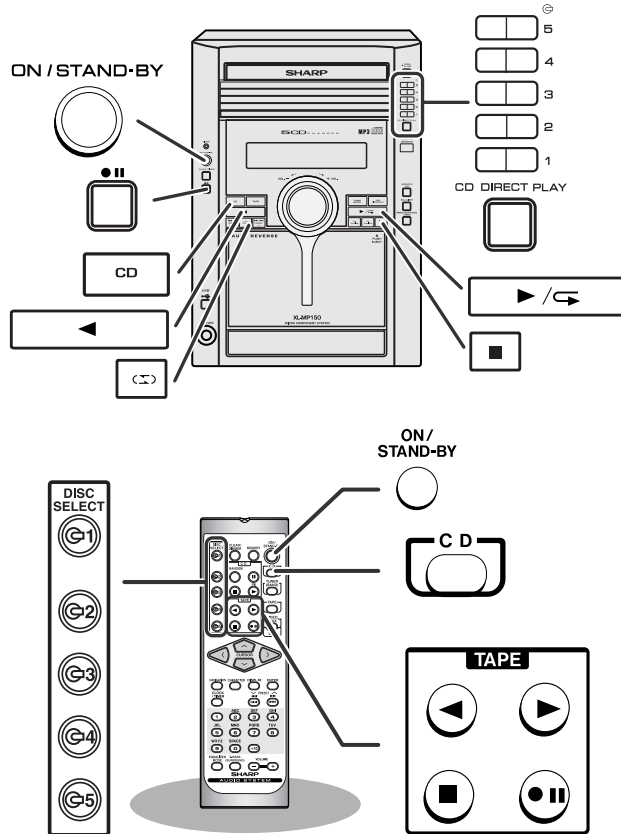
■ Recording from a CD or MP3/WMA disc
You can record the desired disc using the CD DIRECT PLAY button.

|	
1	**Press the ON/STAND-BY button to turn the power on.**
2	**Press the CD button.**
3	**Load a cassette into the cassette compartment with side A facing you.** Wind past the leader of the tape, on which recording cannot be performed.
4	**Press the ⊊ button to choose one side or both sides.** ⊝ ... To record on both sides. ⊑ ... To record on only one side.
5	**Press the ●ΙΙ button.** Recording will be paused.
6	**Press one of the ⊜1 - ⊜5 buttons to select the desired disc.**
7	**Within 5 seconds, press the CD DIRECT PLAY button to start recording.** ● Recording starts from side A. ● Recording is started from the selected disc. When the playback of the last track is finished or the end of the tape is reached, the disc and the cassette will stop automatically. ● Playback of the disc will start approximately 7 seconds after the tape starts.

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

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Sequential recording from several discs:
1 Perform steps 1 - 6 in "Recording from a CD or MP3/WMA disc" on page 28.
2 Within 5 seconds, press the ▶ / ⊏ (TAPE ▶) button to record on side A, or the ◀ (TAPE ◀) button for side B.

To perform programmed recording:
1 Programme discs and tracks (see pages 19).
2 Press the ●II button.
3 Press the ▶ / ⊏ (TAPE ▶) button to record on side A, or the ◀ (TAPE ◀) button for side B.

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

Note:
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.)

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 24).

2 Load a cassette into the 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.

TUNER
FM 98.80 MHz

4 Press the ●II button.
Recording will be paused.

TUNER
REC

5 Press the ▶ / ⊏ (TAPE ▶) button to record on side A, or the ◀ (TAPE ◀) 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 ●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 ■ (TAPE ■) button.

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

■ **Erasing recorded tapes**
1 Press the TAPE button.
2 Follow steps 2 - 5 in "Recording from the radio".

Tape Recording

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Listening to sound from a USB-connected PC

■ System requirements

Connect a PC to the USB port. You can play audio data stored on the PC through the supplied speakers.

The following hardware are required for USB connection:

PC	IBM PC/AT compatible	Apple Macintosh computer
OS	Windows 98 Second Edition	Mac OS X
	Windows 2000 Professional	
	Windows Millennium Edition	
	Windows XP Home Edition	
	Windows XP Professional	
USB	Available USB port (USB 1.1)	
CPU	MMX Pentium processor (266 MHz or higher) or equivalent	

Notes:

● Sharp does not guarantee proper operation on all computers.
● You cannot operate the unit on a PC, and vice versa.
● IBM and PC/AT are registered trademarks of international Business Machines Corporation in the United States.
● Macintosh is a registered trademark of Apple Computer, Inc. in the United States and/or other countries.
● MMX and Pentium are trademarks or registered trademarks of Intel Corporation.
● Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.
● The names of other systems and products in this manual are trademarks or registered trademarks of the corresponding companies. Symbols ™ and ® are omitted.
● PC Equaliser and volume must be set to suitable level otherwise may cause distortion sound.

■ Installing a driver

If this is your first time connecting to a PC, follow the on-screen instructions to install a driver (included with the OS). Once installed, you do not need to repeat the procedure.
For installation, refer to the operation manual for the PC.

1	Turn on a PC to boot the OS.
2	Press the ON/STAND-BY button on the main unit to turn the power on.
3	Press the VIDEO/AUX/USB button repeatedly to select "USB".
4	Connect the unit to the PC with a USB cable.

PC

To the USB socket — To the USB port

USB connection cable (Supplied)
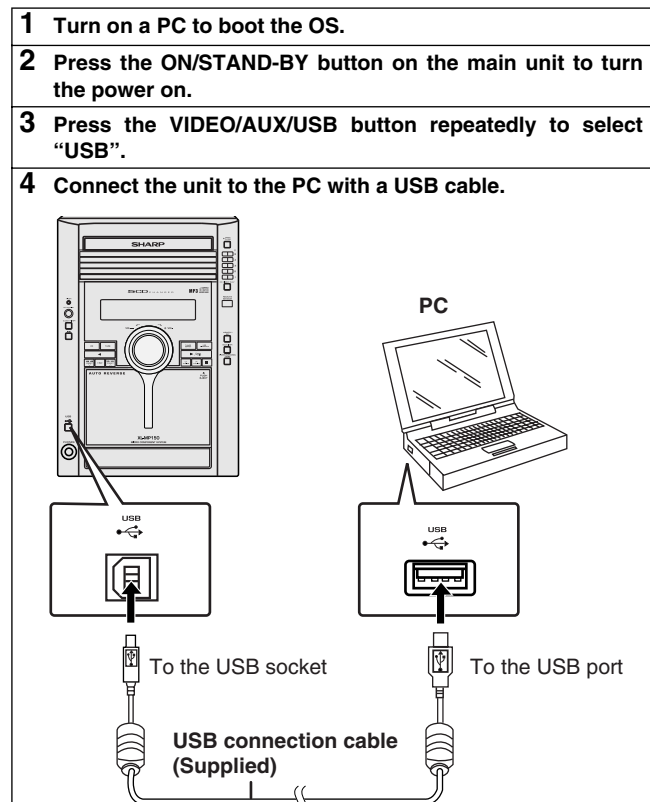
The unit is detected and a driver (included with the OS) is installed. Follow the on-screen instructions.

(Screen shorts vary depending on the OS. The screen shots below are from Windows 98 Second Edition.)

Notes:
- If installation does not start automatically, follow the online instructions.
- Prepare the OS CD-ROM before installation (may be required depending on the PC).
- Do not disconnect the USB cable until the unit is detected.
- For a Macintosh computer with a USB port, a driver is already installed (you do not need to install it).
- Sharp does not guarantee proper operation when you connect a PC using a USB hub or USB extension cable.
- When multiple USB ports are available, use a root hub port (for details, refer to the operation manual for PC).

Advanced Features

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Listening to sound from a USB-connected PC (continued)

■ **Checking a driver**

After installation, make sure the driver is recognised.

Windows 98 Second Edition or Windows Millennium Edition:

1 Select "Setting" → "Control Panel" from the "Start" menu and click it.
2 When the "Control Panel" opens, select the "System" icon and double click it.
3 Click the "Device Manager" tab. Make sure "View devices by type" is selected.
4 Check that the unit is recognised. Make sure "USB Audio Device" is under "Sound, video and game controllers" and "USB Composite Device" is under "Universal Serial Bus controllers". OS: Windows 98 Second Edition.
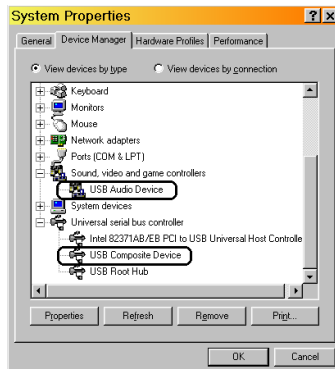
Windows 2000 Professional or Windows XP:

1 Select "Setting" → "Control Panel" from the "Start" menu and click it. For Windows XP, select "Control Panel" from the "Start" menu and click it.
2 When the "Control Panel" opens, select the "System" icon and double click it.
3 Select the "Hardware" tab and click "Device Manager". Make sure "View devices by type" is selected.
4 Check that the unit is recognised. Make sure "USB Composite Device" is under "Universal Serial Bus controllers" and "USB Audio Device" is under "Sound, video and game controllers". OS: Windows XP.
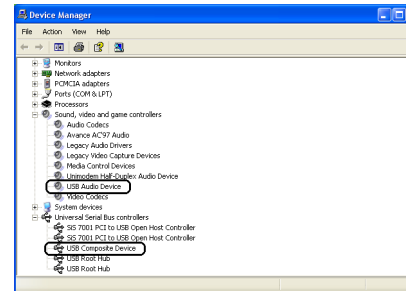
Notes:
● Other items in the Device Manager may be different depending on the PC environment.
● If the unit cannot be recognised, connect and disconnect the USB cable. If the driver is not installed and the unit is still not recognised, restart the PC.

32

ON / STAND·BY

USB
VIDEO/AUX

ON /
STAND·BY

USB
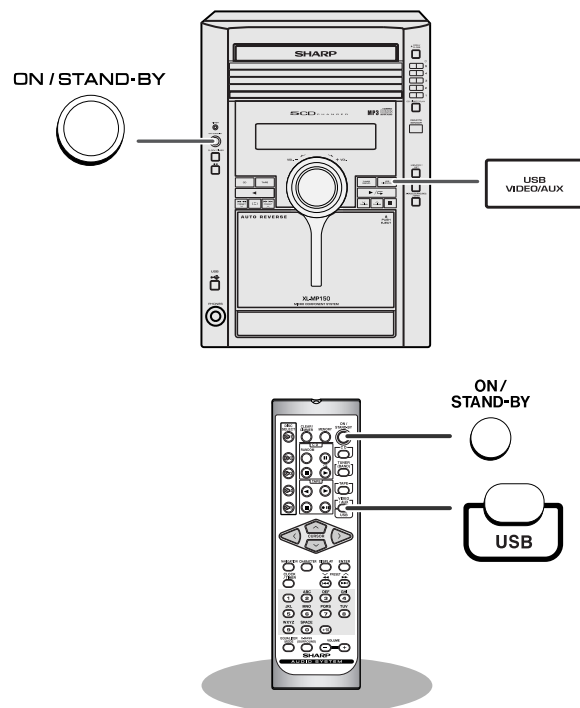
■ Listening to audio data playing on a PC

1	**Connect the unit to the PC with a USB cable (see page 30).**
2	**Turn on a PC to boot the OS.** Wait until the OS boots.
3	**Press the ON/STAND-BY button on the main unit to turn the power on.**
4	**Press the VIDEO/AUX/USB button repeatedly to select "USB".**
5	**Play back on the PC.**
6	**Adjust the volume on the unit.** You can adjust the volume with music software. This is not possible from "Audio Properties" in the task tray (Windows).

Notes:
● When using a USB port, do not turn off the unit or switch the input selector during playback.
● Do not disconnect a USB cable during playback. Close the music software first.
● Before you turn off the unit or PC, close the music software.
● Turn off the unit before the PC.
● It is recommended to turn off the unit before putting the PC into hibernation or standby mode.
● Sound may skip or noise may occur depending on the PC environment.
● Refer to operation manuals for the PC and music software.
● When using a Macintosh computer (with the unit connected and turned off) and the operation is unstable, disconnect the USB cable.
● When playing back on a PC with the unit connected, other sounds (clicks, etc.) are produced from the speakers.
● During playback on a Windows PC, you cannot listen to the sound on the unit by simply connecting a USB cable. Stop and resume playback (not necessary on a Macintosh computer).

Advanced Features

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Listening to sound from a USB-connected PC (continued)

Advanced Features

■ **Useful function with Windows Media Player or iTunes player**

You can use the following buttons on the unit or remote control to operate the Windows Media Player or iTunes player.

OS	Application	Button	Operation
Windows 98 SE/2000/ME/XP	Windows Media Player 9 Series	►	Playback/ Pause
		■	Stop
		►►|	Next
		|◄◄	Previous
Windows 2000/XP only (Mac OS X)	iTunes	►	Playback/ Pause
		►►|	Next
		|◄◄	Previous

Preparation:
It is necessary to set an application type in order to make above buttons effective.
Press ENTER button on the remote control repeatly until the desired application appears.

"WMP" ⟶ "ITUNES W" ⟶ "ITUNES M"
(Windows Media Player) (iTunes for Windows) (iTunes for Mac)
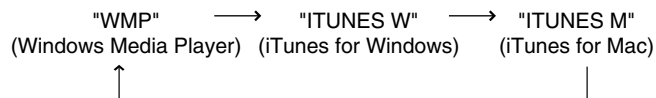
Notes:
● Make sure Windows Media Player or iTunes player in active mode.
● Do not press buttons on the left table when opening other application. It may cause unexpected operation on the PC.
● It is recommended not to open other application on the PC whilst using above function.
● Make sure to select a same application type with the PC.

■ **To record on a tape**
1 Insert a cassette in the cassette compartment.
2 Press the VIDEO/AUX/USB button repeatly to select "USB"
3 Press the ●II button.
4 Press the ► / ⊡ (TAPE ►) or ◄ (TAPE ◄) button.
  Recording will start syncronously if you press the ► / ⊡ button whilst opening Windows Media Player or iTunes player.
5 Play back on the PC.

■ **To stop a recording**
1 Press the ■ (TAPE ■) button.
  Recording will stop syncronously if you press the ■ button whilst opening Windows Media Player or iTunes player.

Note:
● Recording will not stop even PC had stopped playing the audio data. Make sure to press the ■ button when finish a recording.

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Timer and sleep operation

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

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

This unit has 2 types of timer: ONCE TIMER and DAILY TIMER.
Once timer: Once timer play or once timer recording works for one time only at a preset time.
For example, if you are away but want to record a programme on a radio station.
Daily timer: Daily timer play or daily timer recording works at the same preset time every day.
For example, set the timer as a wake-up call every morning.

Using the once timer and daily timer in combination:
For example, use the once timer to record a radio programme, and use the daily timer to wake up.
1 Set the daily timer (pages 35 - 37).
2 Set the once timer (pages 35 - 37).
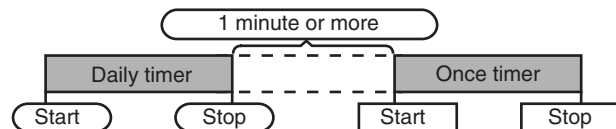
Note:
When set times for the daily timer and once timer overlap, the once timer takes priority. Allow an interval of at least 1 minute between operations.
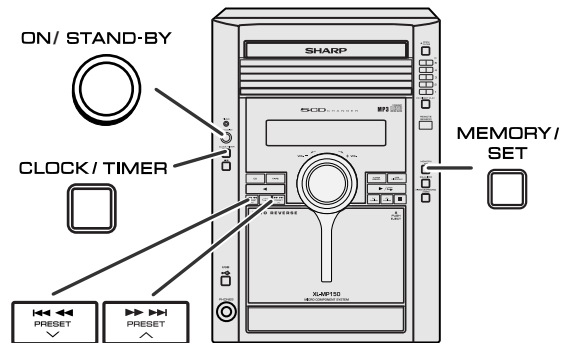
■ Timer playback or timer recording

Before setting timer:

1 Check that the clock is set to the correct time (refer to page 13). If it is not set, you cannot use the timer function.
2 For timer playback: Load a cassette or discs to be played. For timer recording: Load a cassette for recording in the cassette compartment.

⇩

1	**Press the ON/STAND-BY button to turn the power on.**
2	**Press the CLOCK/TIMER button.**
3	**Within 10 seconds, press the ⏮ ⏪ or ⏩ ⏭ button to select "ONCE" or "DAILY", and press the MEMORY/SET (MEMORY) button.**

Set the clock to the correct time if "ONCE" or "DAILY" does not appear.

Advanced Features

35

Timer and sleep operation (continued)

4 **Within 10 seconds, press the I◄◄ ◄◄ or ►► ►►I button to se-lect "ONCE SET" or "DAILY SET", and press the MEMORY/SET (MEMORY) button.**

ONCE SET   DAILY SET

5 **Press the I◄◄ ◄◄ or ►► ►►I button to select "PLAY" or "REC", and press the MEMORY/SET (MEMORY) button.**

White   Red

PLAY ⟺ REC

The illustrations show the daily timer setting.

6 **Press the I◄◄ ◄◄ or ►► ►►I button to adjust the hour and then press the MEMORY/SET (MEMORY) button.**

10:00 ⇨ 18:00
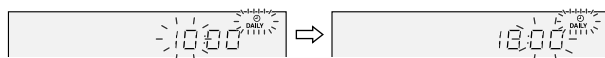
The illustrations show the timer playback setting in the daily tim-er mode.

7 **Press the I◄◄ ◄◄ or ►► ►►I button to adjust the minutes and then press the MEMORY/SET (MEMORY) button.**

18:30

8 **Set the time to finish as in steps 6 and 7 above.**

9 **Switch input with the I◄◄ ◄◄ or ►► ►►I button, and then press the MEMORY/SET (MEMORY) button.**

To select the timer playback source: CD, TUNER or TAPE.

To select the timer recording source: TUNER.

● When you select the tuner, select a station by pressing the I◄◄ ◄◄ or ►► ►►I button, and then press the MEMORY/SET (MEMORY) button.

● If a station has not been programmed, "NO PRESET" will be displayed and timer setting will be cancelled.

10 **Adjust the volume using the VOLUME control, and then press the MEMORY/SET (MEMORY) button.**

Do not turn the volume up too high.

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

The "TIMER" indicator lights up and the unit is ready for timer playback or timer recording.

TIMER

36
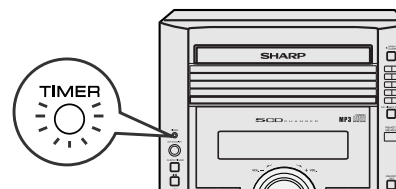
12 When the preset time is reached, playback or recording will start.

The volume will increase gradually until it reaches the preset volume.

13 When the timer end time is reached, the system will enter the power stand-by mode automatically.

Once timer:

The timer will be cancelled.

Daily timer:

The timer will operate at the same time every day. It will continue until the daily timer setting is cancelled. Cancel the daily timer when it is not in use.

Note:

When performing timer playback or recording using another unit connected to the VIDEO/AUX IN socket, select "VIDEO" in step 9.
This unit will turn on or enter the power stand-by mode automatically, however, the connected unit will not turn on or off.

Checking the timer setting in the timer stand-by mode:

1 Press the CLOCK/TIMER button.
2 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select "ONCE" or "DAILY", and press the MEMORY/SET (MEMORY) button.
3 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select "ONCE CALL" or "DAILY CALL", and press the MEMORY/SET (MEMORY) button.
   The unit returns to the timer stand-by mode after displaying the settings in order.

Cancelling the timer setting in the timer stand-by mode:

1 Press the CLOCK/TIMER button.
2 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select "ONCE" or "DAILY", and press the MEMORY/SET (MEMORY) button.
3 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select "ONCE OFF" or "DAILY OFF", and press the MEMORY/SET (MEMORY) button.
   Timer will be cancelled (the setting will not be cancelled).

Reusing the memorised timer setting:
The timer setting will be memorised once it is entered. To reuse the same setting, perform the following operations.
1 Turn the power on and press the CLOCK/TIMER button.
2 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select "ONCE" or "DAILY", and press the MEMORY/SET (MEMORY) button.
3 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select "ONCE ON" or "DAILY ON", and press the MEMORY/SET (MEMORY) button.
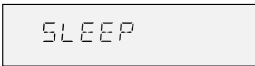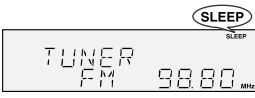4 Press the ON/STAND-BY button to enter the power stand-by mode.

Note:
The timer can also be set with the remote control.

Advanced Features

37

Timer and sleep operation (continued)

Advanced Features

■ Sleep operation

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

1	**Play back the desired sound source.**
2	**Press the CLOCK/TIMER button.**
3	**Within 10 seconds, press the ◄◄ ◄◄ or ►► ►►► button to select "SLEEP", and press the MEMORY/SET (MEMORY) button.**
4	**Press the ◄◄ ◄◄ or ►► ►►► button to select the time.**
	(Maximum: 3 hours - Minimum: 1 minute)
	● 3 hours - 5 minutes → 5-minute intervals
	● 5 minutes - 1 minute → 1-minute intervals
5	**Press the MEMORY/SET (MEMORY) button.**
	"SLEEP" will appear.
6	**The unit 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.

In step 3 display: *SLEEP*

In step 5 display: SLEEP / *TUNER FM 98.80* MHz

To confirm the remaining sleep time:

1 Whilst "SLEEP" is indicated, press the CLOCK/TIMER button.
2 Within 10 seconds, press the ◄◄ ◄◄ or ►► ►►► button to select "SLEEP X : XX".
   "X : XX" is sleep remaining time.
● The remaining sleep time is displayed for about 10 seconds.
● You can change the remaining sleep time whilst it is displayed by pressing the MEMORY/SET (MEMORY) button (steps 4 - 5).

To cancel the sleep operation:

Press the ON/STAND-BY button whilst "SLEEP" is indicated.
To cancel the sleep operation without setting the unit to the stand-by mode, proceed as follows.

1 Whilst "SLEEP" is indicated, press the CLOCK/TIMER button.
2 Within 10 seconds, press the ◄◄ ◄◄ or ►► ►►► button to select "SLEEP OFF", and press the MEMORY/SET (MEMORY) button.

■ To use timer and sleep operation together

Sleep and timer playback:
For example, you can fall asleep listening to the radio and wake up to CD in the next morning.

Sleep and timer recording:
For example, you can fall asleep listening to the CD and record radio programmes whilst sleeping.

1 Set the sleep time (see left, steps 1 - 5).

2 Whilst the sleep timer is set, set the timer playback or recording (steps 2 - 10, pages 35 - 36).

Sleep timer setting	Timer playback or recording setting		End time
1 minute - 3 hours			Desired time

Sleep operation will automatically stop.

Timer playback or recording start time
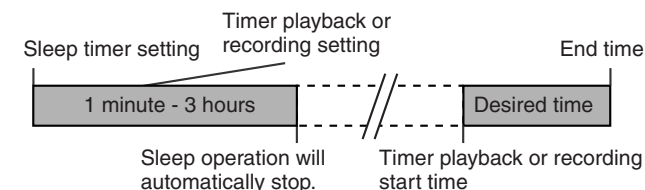
Caution:

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 or recording will not be possible.

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Enhancing your system

The connection lead is not included. Purchase a commercially available lead as shown below.
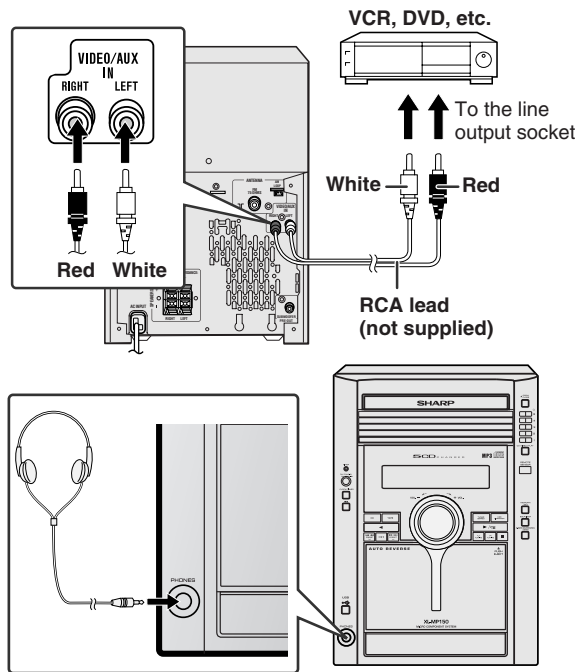
Auto power on function:
When you press any of the following buttons, the unit turns on.
● USB/VIDEO/AUX button (main unit and remote control): The unit turns on and the last function is activated. (USB/VIDEO/AUX)
● ► / ⊂ button on the main unit: The unit turns on and playback of the last function starts (CD, TAPE, TUNER, USB/VIDEO/AUX).

■ **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 USB/VIDEO/AUX button.

4 Play the connected equipment.

Note:
To prevent noise interference, place the unit away from the television.

■ **To record on a tape**

1 Insert a cassette in the cassette compartment.

2 Press the USB/VIDEO/AUX button.

3 Press the ●II button.

4 Press the ► / ⊂ (TAPE ►) or ◄ (TAPE ◄) 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 impedance between 16 and 50 ohms. The recommended impedance is 32 ohms.
● Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the VOLUME control.

Advanced Features

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Enhancing your system (continued)

■ Subwoofer connection

When a commercially available speaker with a built-in amplifier is connected to this unit, you can enjoy sound with emphasised bass. Connect an RCA lead from a commercially available speaker with a built-in amplifier to the SUBWOOFER PRE-OUT socket.

SUB WOOFER
PRE-OUT

Speaker with a built-in amplifier

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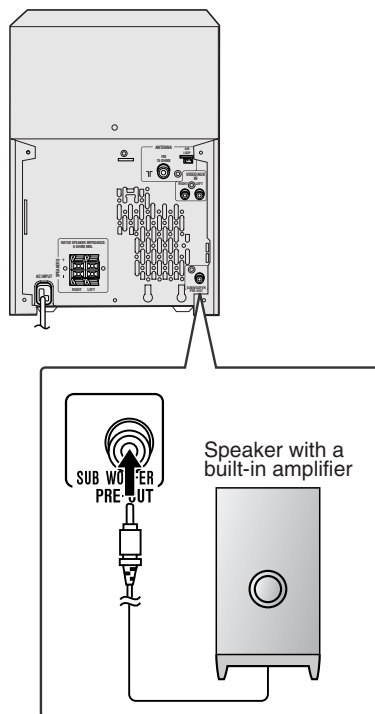
Troubleshooting chart

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
● The clock is not set to the correct time.	● Did a power failure occur? Reset the clock.
● When a button is pressed, the unit does not respond.	● Set the unit to the power stand-by mode and then turn it back on. ● If the unit still malfunctions, reset it.
● No sound is heard.	● Is the volume level set to "0"? ● Are the headphones connected? ● Are the speaker wires disconnected?

■ CD player

Symptom	Possible cause
● Playback does not start. ● Playback stops in the middle or is not performed properly.	● Is the disc loaded upside down? ● 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?

■ Cassette deck

Symptom	Possible cause
● Cannot record.	● Is the erase-prevention tab removed?
● Cannot record tracks with proper sound quality. ● Cannot erase completely.	● Is it a normal tape? (You cannot record on a metal or CrO_2 tape.)
● Sound skipping. ● Cannot hear treble. ● Sound fluctuation.	● Is there any slack? ● Is the tape stretched? ● Are the capstans, pinch rollers, or heads dirty?
● Cannot remove the tape.	● If a power failure occurs during playback, the heads remain engaged with the tape. Do not open the compartment with great force.

■ Tuner

Symptom	Possible cause
● The radio makes unusual noises continuously.	● 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.

■ 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 correct? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Does the remote control sensor receive strong light?

■ USB

Symptom	Possible cause
● Distortion or no sound.	● Is the volume set properly on the music software? ● Is "USB Audio Device" selected as the default device in the audio properties?
● Sound skips or the PC screen freezes up.	● Is any software other than the music software open?
● No sound is heard from the PC.	● If the unit is recognised by the PC, disconnect the USB cable and restart the PC. Or set the unit to the power stand-by mode and then turn it back on.

■ 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.

References

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Troubleshooting chart (continued)

References

■ 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 ●II button and the X-BASS/DEMO button, press the TUNING ∨ button until "CLEAR ALL" appears.

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

■ Before transporting the unit

Remove all CDs from the unit. Make sure there is no CD in the disc tray. Then, set the unit to the power stand-by mode. Carrying the unit with discs left inside can damage 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.

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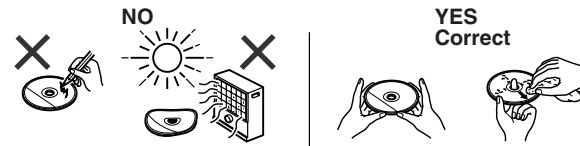
Maintenance

■ 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.
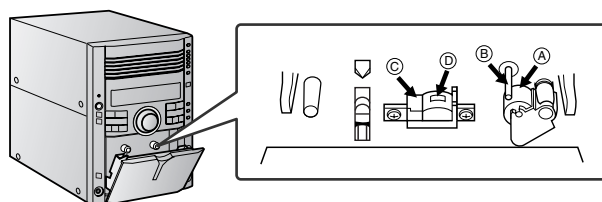
Ⓐ Pinch roller
Ⓑ Capstan
Ⓒ Erase head
Ⓓ Recording/Playback head

● 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.

References

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Specifications

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

■ General

Power source	AC 230 - 240 V, 50 Hz
Power consumption	100 W
Dimensions	Width: 185 mm (7-1/4") Height: 260 mm (10-1/4") Depth: 307 mm (12")
Weight	6.4 kg (14.1 lbs.)

■ Amplifier

Output power	MPO: 376 W (188 W + 188 W) (10% T.H.D.) RMS: 200 W (100 W + 100 W) (10% T.H.D.) RMS: 160 W (80 W + 80 W) (0.9% T.H.D.)
Output terminals	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms) Subwoofer pre-out (audio signal): 200 mV/10 k ohms at 70 Hz
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 k ohms USB input: USB type

■ CD player

Type	5-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: 87.50 - 108.00 MHz
	AM: 522 - 1,620 kHz

■ Cassette deck

Frequency response	50 - 14,000 Hz (normal tape)
Signal/noise ratio	50 dB (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	200 W
Rated input power	100 W
Impedance	6 ohms
Dimensions	Width: 185 mm (7-1/4") Height: 260 mm (10-1/4") Depth: 260 mm (10-1/4")
Weight	3.1 kg (6.8 lbs.)/each

References

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MEMO

MEMO

SHARP

FOR LOCATION ENQUIRIES WITHIN

AUSTRALIA

REGARDING YOUR LOCAL

SHARP APPROVED SERVICE CENTRE

VISIT OUR WEBSITE AT

www.sharp.net.au

OR CALL SHARP CUSTOMER CARE

1300 135 022

(LOCAL CALL COST APPLY WITHIN AUSTRALIA)

SHARP CORPORATION OF AUSTRALIA PTY LTD

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FOR LOCATION ENQUIRIES WITHIN

NEW ZEALAND

REGARDING YOUR LOCAL

SHARP APPROVED SERVICE CENTRE

VISIT OUR WEBSITE AT

www.sharp.net.nz

CONTACT YOUR SELLING DEALER/RETAILER

OR CALL

SHARP CUSTOMER SERVICES

TELEPHONE: 09 573 0111

FACSIMILE: 09 573 0113

SHARP CORPORATION OF NEW ZEALAND LIMITED

SPform019(JUNE 2004)

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 or 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.

IMPORTANT
DO NOT RETURN THIS DOCUMENT TO SHARP

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

Model No. _____   Date of Purchase _____

Serial No. _____   Retailer _____

SHARP CORPORATION OF
AUSTRALIA PTY. LIMITED
ABN 40 003 039 405
1 Huntingwood Drive
Huntingwood NSW 2148

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

SHForm014 (JUNE 2004)

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

SHARP

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