

# SHARP

## MINI COMPONENT SYSTEM

MODEL

# CD-SW340

OPERATION MANUAL

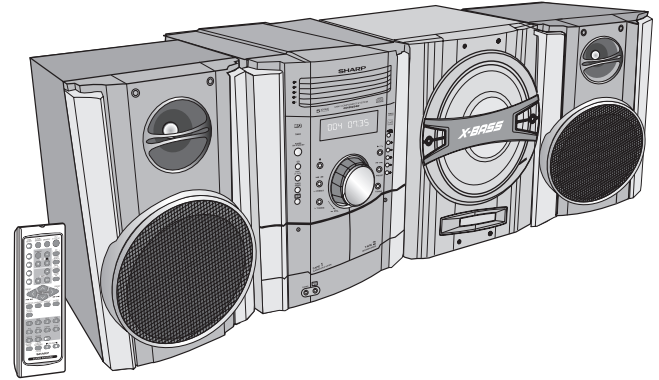
COMPACT  
**disc**  
DIGITAL AUDIO



**MP3** with  
NAVIGATION

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

CD-SW340 Mini Component System consisting of CD-SW340 (main unit), CP-S340 (front speaker) and CP-SW340 (Subwoofer).

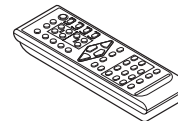


CD-R/RW  
Playable

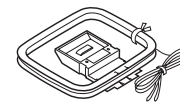
5-DISC  
CHANGER

## Accessories

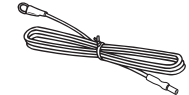
Please confirm that the following accessories are included.



Remote control × 1  
(RRMCGA161AWSA)



AM loop antenna × 1  
(QANTL0010AWZZ)



FM antenna × 1  
(92LFAnt1535A)

### Note:

Only the above accessories are included.

# SPECIAL NOTES



**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

### Explanation of Graphical Symbols:



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

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

### Note to CATV system installer:

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

### NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### WARNING

FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

### NOTES

- It is the intent of Sharp that this product be used in full compliance with the copyright laws of the United States and that prior permission be obtained from copyright owners whenever necessary.
- Licensed under one or more of U.S. Pat. 4,972,484, 5,214,678, 5,323,396, 5,530,655, 5,539,829, 5,544,247, 5,606,618, 5,610,985, 5,740,317, 5,777,992, 5,878,080 or 5,960,037.

## FOR YOUR RECORDS

For your assistance in reporting this unit in case of loss or theft, please record below the model number and serial number which are located on the rear of the unit.

Please retain this information.

**Model number** .....

**Serial number** .....

**Date of purchase** .....

**Place of purchase** .....

# IMPORTANT SAFETY INSTRUCTIONS

Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of this product, please read the following precautions carefully before use.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



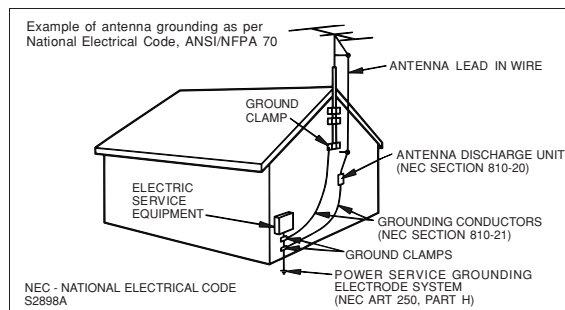
## Additional Safety Information

- 15) Power Sources - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For product intended to operate from battery power, or other sources, refer to the operating instructions.
- 16) Overloading - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 17) Object and Liquid Entry - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

# IMPORTANT SAFETY INSTRUCTIONS (continued)

- 18) Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions :
- When the AC cord or plug is damaged,
  - If liquid has been spilled, or objects have fallen into the product,
  - If the product has been exposed to rain or water,
  - If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
  - If the product has been dropped or damaged in any way, and
  - When the product exhibits a distinct change in performance - this indicates a need for service.
- 19) Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 20) Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 21) Wall or ceiling mounting - When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.
- 22) Power Lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

- 23) Outdoor Antenna Grounding - If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regards to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



- 24) Protective Attachment Plug - The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.
- 25) Stand - Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.

### ENERGY STAR® Program Information



**ENERGY STAR**

Products that have earned the ENERGY STAR® are designed to protect the environment through superior energy efficiency.

To comply with the ENERGY STAR® standards mentioned above, please cancel the demonstration mode, as described on page 13.

**ENERGY STAR® is a U.S. registered mark.**

### 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.

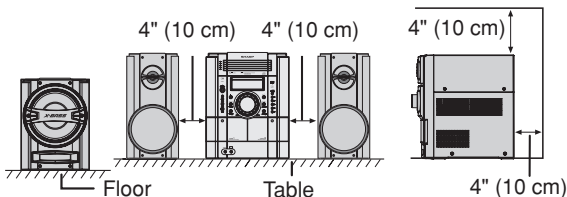
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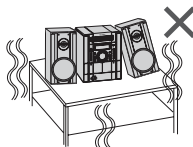
# Precautions

## ■ General

- Please ensure that the equipment is positioned in a well ventilated area and ensure that there is at least 4" (10 cm) of free space along the sides, top and back of the equipment.



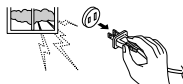
- **Do not place subwoofer system on the same surface as main unit to prevent sound interruption during playback.**
- Use the unit on a firm, level surface free from vibration.



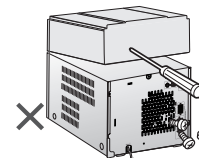
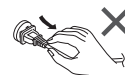
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.



- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 140°F (60°C) or to extremely low temperatures.
- If your system does not work properly, disconnect the AC power cord from the AC outlet. Plug the AC power cord 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 AC outlet, as pulling the cord can damage internal wires.
- The AC power plug is used as a disconnect device and shall always remain readily operable.
- **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**



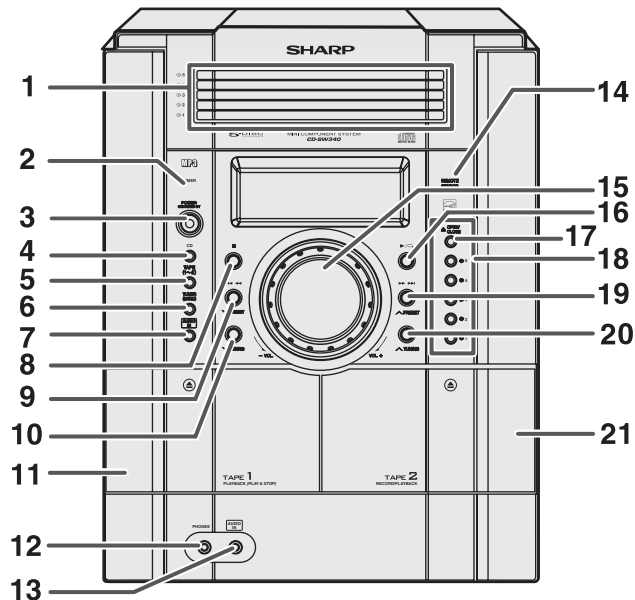
- This unit should only be used within the range of 41°F - 95°F (5°C - 35°C).

## 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

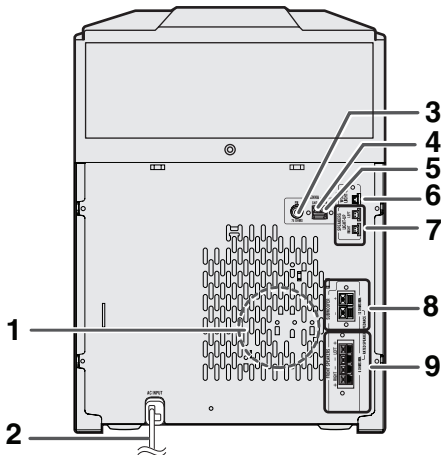
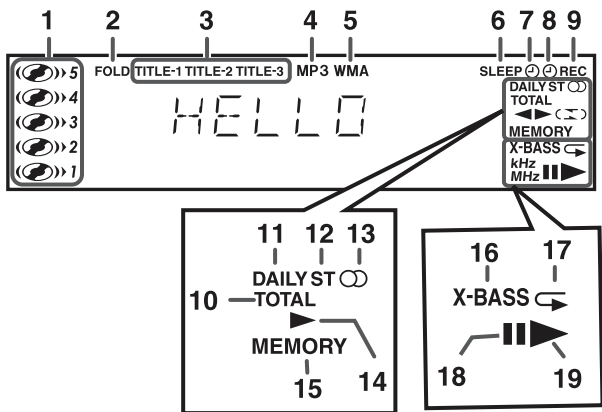
The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels, which occurs while turning the unit on with the volume control setting up high, or while continually listening at high volumes. Excessive sound pressure from earphones and headphones can cause hearing loss.



## ■ Front panel

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2. Timer Indicator	33
3. Power On/Stand-by Button	15
4. CD Button	17
5. Tape (1 → 2) Button	28
6. Tuner (Band) Button	26
7. Audio In Button	35
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9. CD Track Down or Fast Reverse, Tape 2 Rewind, Tuner Preset Down, Time Down Button	16, 19, 26, 27, 29, 32
10. Tuning Down, Cursor Down Button	22, 26
11. Tape 1 Cassette Compartment	28
12. Headphone Jack	35
13. Audio In Jack	35
14. Remote Sensor	14
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19. CD Track Up or Fast Forward, Tape 2 Fast Forward, Tuner Preset Up, Time Up Button	16, 19, 26, 27, 29, 32
20. Tuning Up, Cursor Up Button	22, 26
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# Controls and indicators (continued)



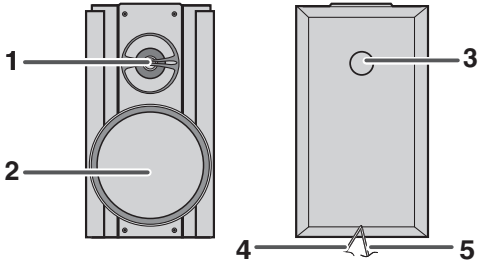
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14. Tape Play Indicator	30
15. Memory Indicator	21
16. Extra Bass Indicator	15
17. Disc Repeat Play Indicator	20
18. Disc Pause Indicator	19
19. Disc Play Indicator	18

## ■ Rear panel

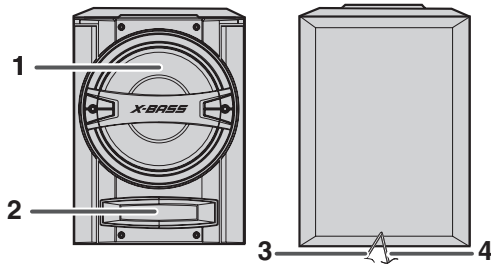
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6. Subwoofer Light-up Jack	12
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9. Front Speaker Terminals	12





### ■ Front Speaker

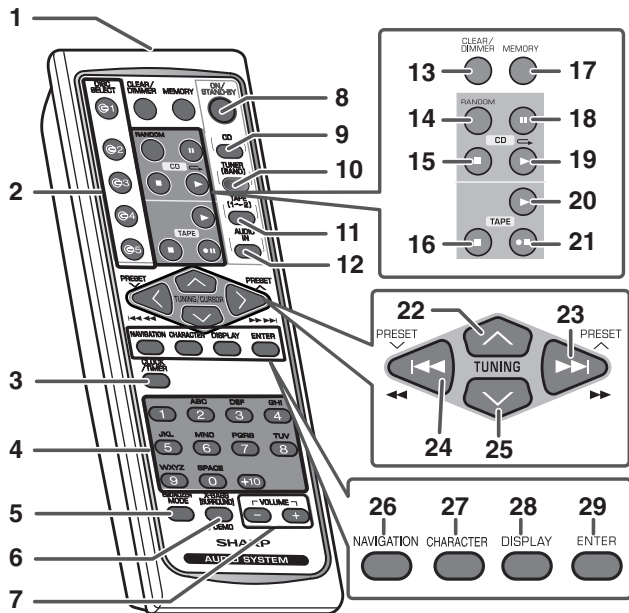
1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Wire
5. Speaker Light-Up Wire



### ■ Subwoofer

1. Subwoofer
2. Bass Reflex Duct
3. Subwoofer Light-Up Wire
4. Speaker Wire

# Controls and indicators (continued)



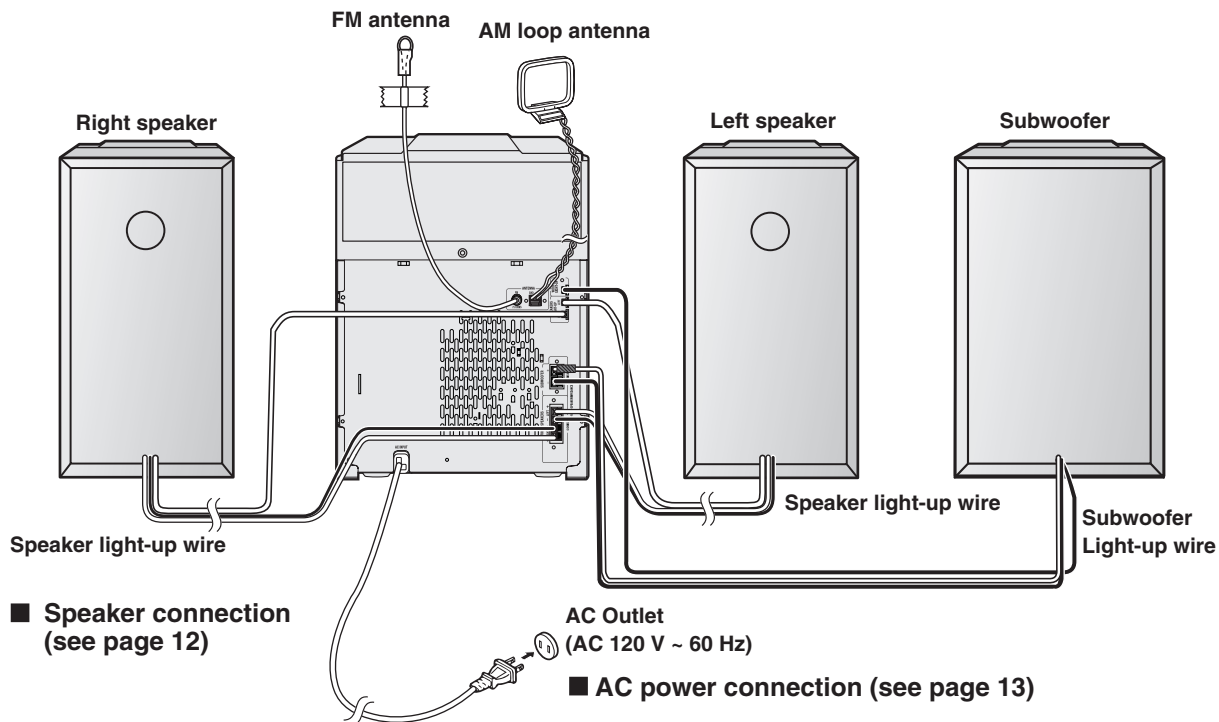
## ■ Remote control

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9. CD Button	17
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11. Tape (1 -- 2) Button	28
12. Audio In Button	35
13. Clear/Dimmer Button	15, 21
14. Disc Random Button	20
15. Disc Stop Button	19
16. Tape Stop Button	29
17. Memory Button	16, 21, 27, 32
18. Disc Pause Button	19
19. Disc Play or Repeat Button	17, 20
20. Tape Play Button	28
21. Tape 2 Record Pause Button	29
22. Tuning Up, Cursor Up Button	22, 26
23. Disc Track Up or Fast Forward, Tape Fast Forward, Tuner Preset Up, Time Up, Cursor Right Button	16, 19, 26, 27, 29, 32
24. Disc Track Down or Fast Reverse, Tape Fast Rewind, Tuner Preset Down, Time Down, Cursor Left Button	16, 19, 26, 27, 29, 32
25. Tuning Down, Cursor Down Button	22, 26
26. MP3/WMA Navigation Mode Select Button	22
27. Character Button	22
28. MP3/WMA Display Button	22
29. Enter Button	22

# System connections

Make sure to unplug the AC power cord before making any connections.

## ■ Antenna connection (see page 12)



## ■ Speaker connection (see page 12)

AC Outlet  
(AC 120 V ~ 60 Hz)

## ■ AC power connection (see page 13)

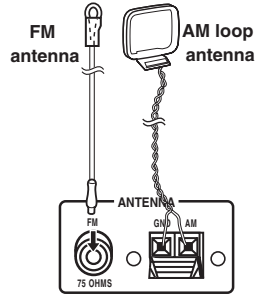
# System connections (continued)

Preparation for Use

## Antenna connection

### Supplied FM antenna:

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



### Supplied AM loop antenna:

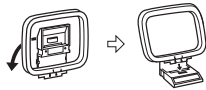
Connect the AM loop antenna to the AM and GND terminals. Position the AM loop antenna for optimum reception. Place the AM loop antenna on a shelf, etc., or attach it to a stand or a wall with screws (not supplied).

### Note:

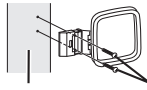
Placing the antenna on the unit or near the AC power cord may cause noise pickup. Place the antenna away from the unit for better reception.

### Installing the AM loop antenna:

< Assembling >



< Attaching to the wall >



Wall Screws (not supplied)

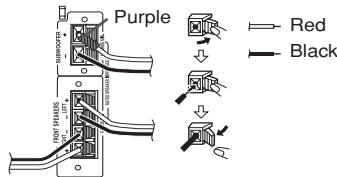
## Speaker connection

### FRONT SPEAKERS:

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

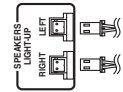
### SUBWOOFER:

Connect the black wire to the SUBWOOFER minus (-) terminal, and the red wire with purple insulation tube to the SUBWOOFER plus (+) terminal.



## Speaker Light-Up connection

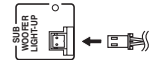
- 1 Connect the speaker light-up wires to the SPEAKERS LIGHT-UP jacks for speaker illumination. To turn off the speaker light-up feature, press the CLEAR/DIMMER button on the remote control for 2 seconds or more.



### Note:

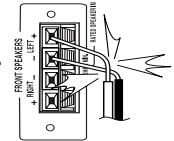
Placing the right speaker light-up wire to the RIGHT jack and the left speaker light-up wire to the LEFT jack.

- 2 Connect the subwoofer light-up wire to the SUBWOOFER LIGHT-UP jack.



### Caution:

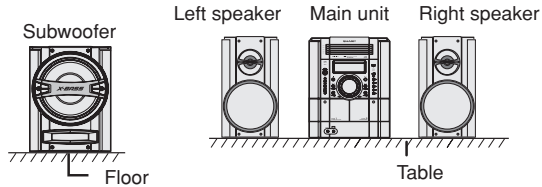
- Never mistake the FRONT SPEAKERS and the SUBWOOFER terminals. The unit or the speakers may be damaged.
- If you use other speakers with an impedance lower than that specified, the unit may be damaged. Front speakers: 6 ohms, Subwoofer: 12 ohms.
- Do not mistake the right and the left channels. The right speaker is the one on the right side when you face the unit.
- **Do not let the bare speaker wires touch each other.**
- Do not stand or sit on the speakers. You may be injured.
- Do not allow any objects to fall into or to be placed in the bass reflex duct.



**Incorrect**

## ■ Placing the speaker system

There is no distinction between the right and left speakers.

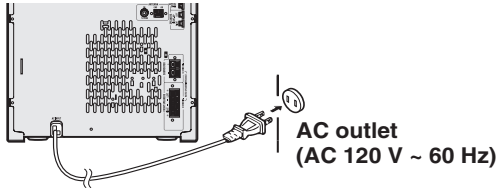


### Note:

The speaker grilles are not removable.

## ■ AC power connection

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

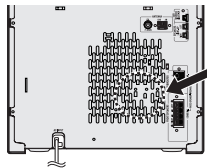


### Notes:

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

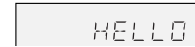
### Cooling fan:

The 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.



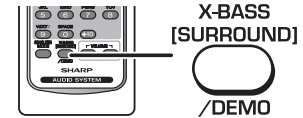
## ■ Demonstration mode

The first time the unit is plugged in, the unit will enter the demonstration mode. You will see words scroll and the subwoofer and front speaker will light up in flashing mode.



### 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 and the subwoofer and front speaker light up will be off.



### To return to the demonstration mode:

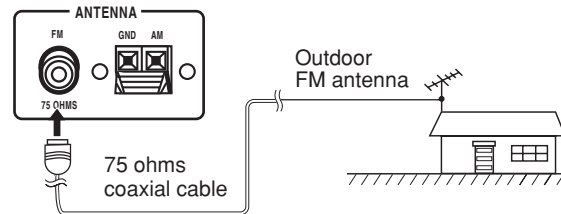
When the unit is in the power stand-by mode, press the X-BASS (SURROUND)/DEMO button again.

### Note:

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

## ■ Outdoor FM antenna

Use an outdoor FM antenna if you require better reception. Consult your dealer.



### Note:

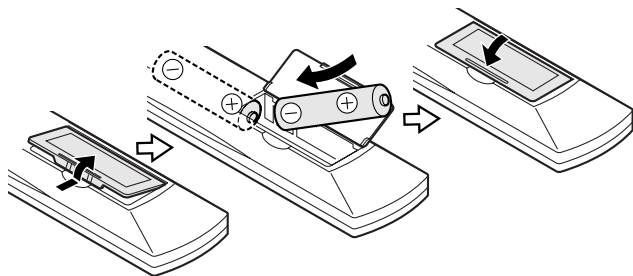
When an outdoor FM antenna is used, disconnect the supplied FM antenna wire.

# 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.**  
When inserting or removing the batteries, push them toward the ⊖ battery terminals.
- 3 **Close the battery cover.**



### Precautions for battery use:

- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit will not be used for long periods of time. This will prevent potential damage due to battery leakage.
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

### 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.
- Keep the remote control away from moisture, heat, shock, and vibrations.

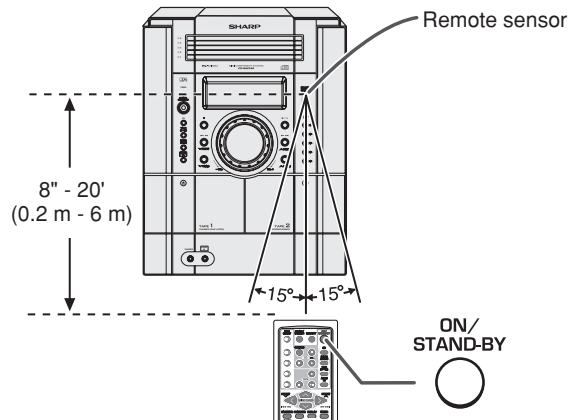
### ■ Test of the remote control

Check the remote control after checking all the connections (see pages 11 - 13).

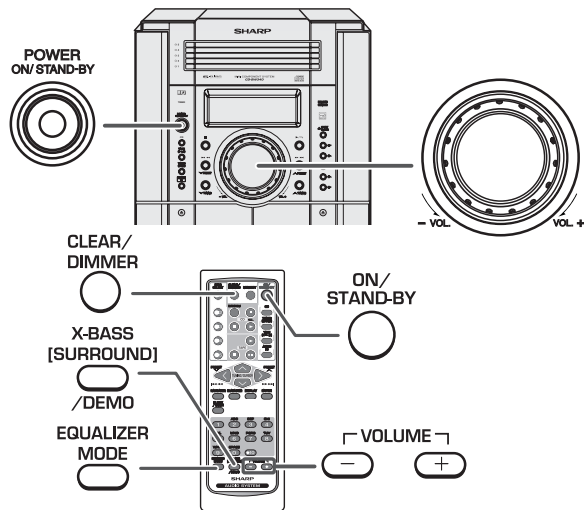
Point the remote control directly at the remote sensor on the unit.

### 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 the music.



# General control



## ■ 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.

## ■ Subwoofer and front speaker light up control

The subwoofer and front speaker will light up according to the level of the music source played back. 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.

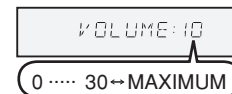
## ■ Volume control

### Main unit operation:

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

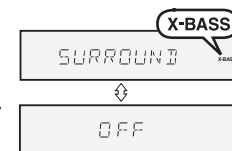
### Remote control operation:

Press the VOLUME (+ or -) button to increase or decrease the volume.



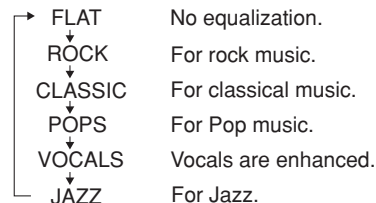
## ■ Surround mode

When the X-BASS (SURROUND)/DEMO 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 button again.



## ■ Equalizer

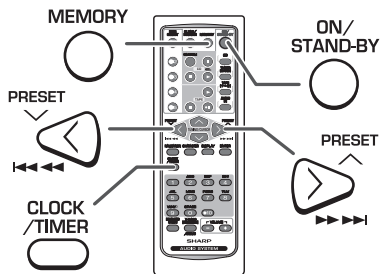
When the power is first turned on, the unit will enter FLAT mode. When the EQUALIZER MODE button is pressed, the current mode setting will be displayed. To change to a different mode, press the EQUALIZER MODE button repeatedly until the desired sound mode appears.



### Note:

If the EQUALIZER MODE button is pressed in the surround mode, it will be canceled automatically.

# Setting the clock (Remote control only)



In this example, the clock is set for the 12-hour (AM 12:00) 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 button.



- 4** Press the ◀◀◀◀ or ▶▶▶▶ button to select 12-hour or 24-hour display and then press the MEMORY button.



- |              |   |
|--------------|---|
| → "AM 12:00" | → The 12-hour display will appear.<br>(AM 12:00 - PM 11:59) |
| ↓            |   |
| "AM 0:00"    | → The 12-hour display will appear.<br>(AM 0:00 - PM 11:59)  |
| ↓            |   |
| "0:00"       | → The 24-hour display will appear.<br>(0:00 - 23:59)        |

- 5** Press the ◀◀◀◀ or ▶▶▶▶ button to adjust the hour and then press the 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 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 12-hour or 24-hour display) will be skipped.

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

- 1 Clear all the programmed contents. [Refer to "Clearing all the memory (reset)" on page 37 for details.]
- 2 Perform "Setting the clock" from step 1 onwards.



# 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" and "WMA" indicators will light up after the unit reads information on an MP3 or WMA disc.

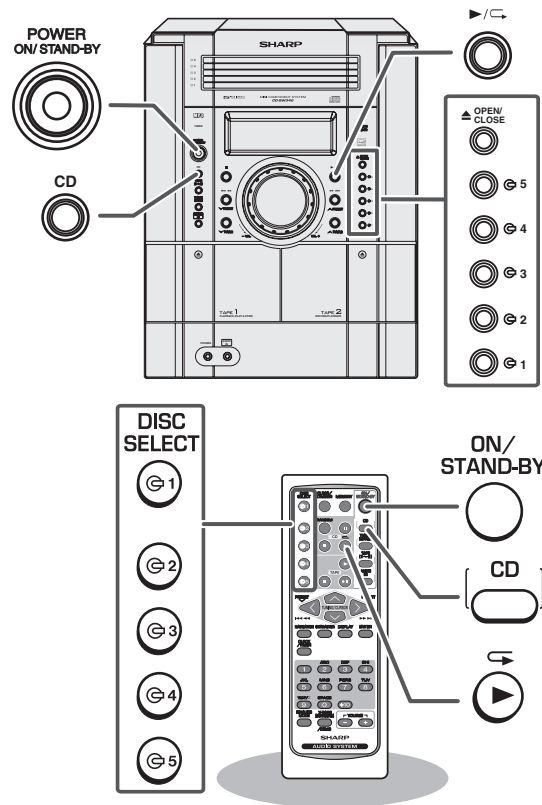
## Auto power on function:

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,AUDIO IN).

## 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.



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

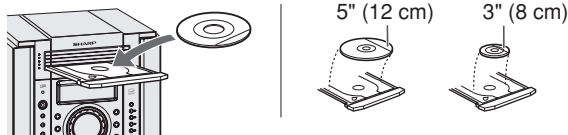
**1** Press the ON/STAND-BY button to turn the power on.


**2** Press the CD button.

**3** Press the  button and within 5 seconds, press the  button to open the disc tray 1.

**4** Place the disc on the disc tray 1, label side up.

Be sure to place 3" (8 cm) disc in the middle of the disc trays.



**5** Press the  button to close the disc tray 1.

[CD]



Total number of tracks on the disc

Total playing time of the disc

[MP3/WMA]



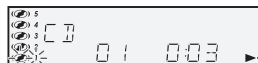
Total number of folders

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 while playing a disc:

Press one of the  -  buttons for the stopped disc and within 5 seconds, press the  button and exchange discs.










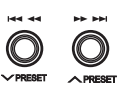

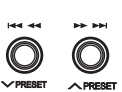

### To remove the discs:

In the stop mode, press the  -  buttons and within 5 seconds, press the  button.

### Caution:

- Do not place two discs in a same tray.
- Do not play discs of special shapes (heart, octagon, etc.) as it may cause malfunctions.
- Do not push the disc tray while it is moving.
- If the power fails while the tray is open, wait until the power is restored.
- If the disc tray is stopped with force, "ER-CD21" 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.

■ Various disc functions

Function	Main unit	Remote control	Operation
<b>Play</b> 			Press in the stop mode.
<b>Stop</b> 			Press in the playback mode.
<b>Pause</b> 			Press in the playback mode. Press the ▶ / ◀ button to resume playback from the paused point.
<b>Track up/ Track down</b>			Press in the playback or stop mode. If you press the button in the stop mode, press the ▶ / ◀ button to start the desired track.
<b>Fast forward/ Fast reverse</b>			Press and hold down in the playback mode. Release the button to resume playback.

**Notes for CD or MP3/WMA disc:**

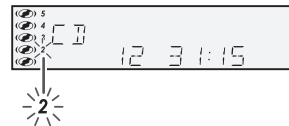
- Track up/track down is possible only within individual discs.
- Fast forward/fast reverse is possible only within individual discs.
- When the end of the last track is reached during fast forward, "END" will appear on the display and CD operation will be paused. When the beginning of the first track is reached during fast reverse, the unit will enter the playback mode.
- Rewritable multi-session discs which writing is not finished, can still be played.

# Advanced CD or MP3/WMA disc playback

■ To specify a disc to play

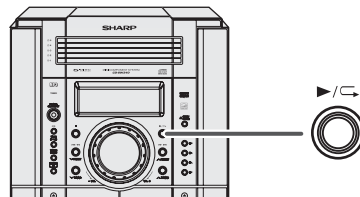
You can play a disc by specifying the disc number.

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



Selected disc number

**2 Within 5 seconds, press the ▶ / ◀ button on the main unit.**



- Playback will begin from track 1 on the chosen disc.
- After the last track on the last 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 disappear.

**To stop playback:**

Press the ■ (CD ■) button.

## Advanced CD or MP3/WMA disc playback (continued)

### ■ 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 while playing the selected disc.

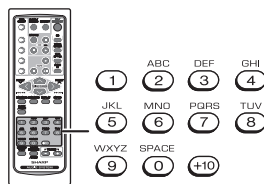


Selected track number

- 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 130

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

#### Notes:

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

#### To stop playback:

Press the **■** (CD **■**) button.

### ■ Repeat play

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

#### To repeat one disc:

Press the **▶/◀** button twice.

#### To repeat all tracks on up to 5 discs:

Press the **▶/◀** button three times.

#### To repeat desired tracks:

Perform steps 1 - 6 in "Programmed play" section on page 21 and then press the **▶/◀** button twice.



#### To cancel repeat play:

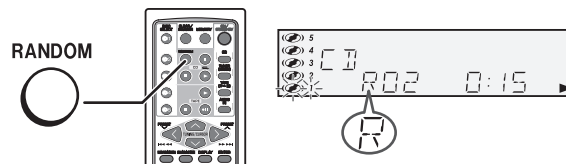
Press the **▶/◀** button again. "◀" will disappear.

### ■ 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 disappear.

#### Notes:



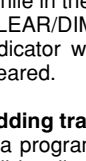
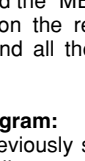
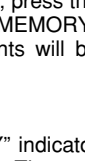
- If you press the **▶▶** button during random play, you can move to the next track by the random operation. However, the **◀◀** button does not allow you to move to the previous track. It will go to the beginning of the current track instead.
- In random play, the unit will select and play tracks automatically. (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

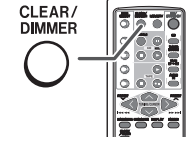
You can choose up to 32 selections for playback in the order you like.

<p><b>1</b> While in the stop mode, press the <b>MEMORY</b> button on the remote control to enter the programming save mode.</p>	<p style="text-align: center;"><b>MEMORY</b></p> 
<p><b>2</b> Press one of the <b>1 - 5</b> buttons to select the desired disc.</p>	 <p style="text-align: center;">Selected disc number</p>
<p><b>3</b> Press the direct search buttons on the remote control to select the desired track.</p>	 <p style="text-align: center;">Selected track number</p> <p>You can also select a track by pressing the <b>◀◀</b> or <b>▶▶</b> button.</p>
<p><b>4</b> Press the <b>MEMORY</b> button to save the track number.</p>	
<p><b>5</b> Repeat steps 2 - 4 for other tracks. Up to 32 tracks can be programmed.</p> <p>If you make a mistake, the programmed tracks can be cleared by pressing the CLEAR/DIMMER button.</p>	
<p><b>6</b> Press the <b>■ (CD ■)</b> button.</p> <p>The total number in memory will appear.</p>	
<p><b>7</b> Press the <b>▶ / ◀</b> button to start playback.</p>	

### To clear the programmed selections:

Press the CLEAR/DIMMER button on the remote control while 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:

While 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 program:

If a program 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 program.

### To check which tracks are programmed:

While the unit is stopped in the programmed play mode, press the **◀◀** or **▶▶** button.

### Notes:

- When a disc with programmed tracks is ejected, the program is automatically canceled.
- 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 program operation, random play is not possible.

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

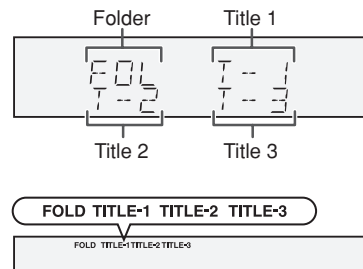
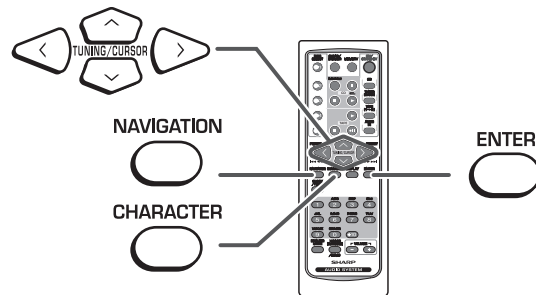
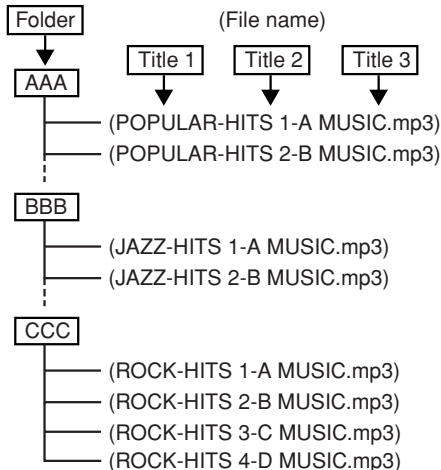
## MP3/WMA navigation:

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 23).
- By entering a name, you can search files by folder or title 1/2/3 within one MP3/WMA disc (see page 24).
- Folders or titles can be programmed within one MP3/WMA disc (see page 25).

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 recognized.

### Example:



### 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 recognizes 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.

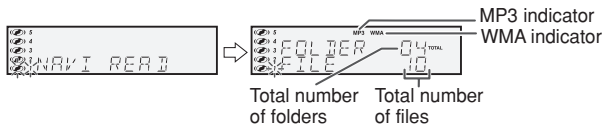
**■ File search (by folder or title 1/2/3)**

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.**

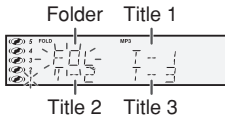
**2 Press the ► / ◀ button, and the unit starts to read the MP3 disc.**

**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.



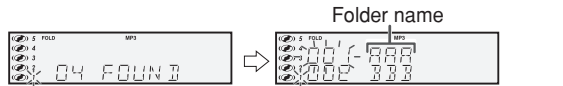
**4 Press the NAVIGATION button.**

**5 Press the <, >, ^ or v 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).



The following steps describe file search by folder:

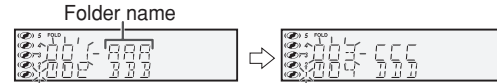
**6 Press the ENTER button.**  
 The total number of folders (or titles) appears for 2 seconds, and names of the first 2 folders (or titles) are displayed.



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



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



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

**8 Use the ^ or v cursor button to scroll and select a file.**



**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 canceled.

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

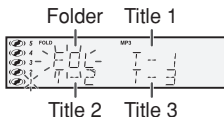
### ■ Character search (for folder or title 1/2/3)

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 23.

**2** Press the NAVIGATION button.

**3** Press the  $\leftarrow$ ,  $\rightarrow$ ,  $\wedge$  or  $\vee$  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  $\leftarrow$  or  $\rightarrow$  cursor button to select the desired alphabet.

Press the  $\lll$  or  $\ggg$  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  $\wedge$  or  $\vee$  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.

**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  $\wedge$  or  $\vee$  cursor button to scroll and select a folder (or title).

**10** Press the  $\blacktriangleright$  /  $\blacktriangleleft$  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  $\blacksquare$  button.

**Notes:**

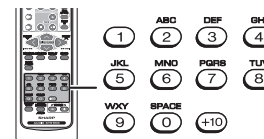
- The unit searches regardless of the case, and names found will appear in uppercase.
- Some symbols do not appear properly.

**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  $\rightarrow$  A  $\rightarrow$  B  $\rightarrow$  C

**Characters:**

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

$\square$  : indicates a space.



## ■ 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 23.**

**2 Press the NAVIGATION button.**

**3 Press the <, >, ^ or v 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 ^ or v cursor button to select the desired folder (or title) and then press the MEMORY button.**



The folder (or title) is memorized with all the files.

**5 Repeat step 4 for other folders (or titles).**

Up to 10 folders (or 10 titles) can be programmed.

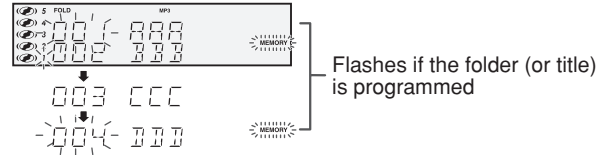
**6 Press the ► / ◀ button to start playback.**



Programmed play will always start from the smallest folder (or title) number.

## To check, add or delete programmed contents:

In the stop mode, select a folder (or title) with the ^ or v cursor button. If the folder (or title) is programmed, "MEMORY" flashes.



- When you press the MEMORY button with "MEMORY" flashing, the folder (or title) is removed from the program.
- If you press the MEMORY button with "MEMORY" off, the folder (or title) is added to the program.
- To clear all programs, 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.
- If you press the RANDOM button in the stop mode, the MP3/WMA navigation mode will be canceled.

## If tracks are programmed using track numbers (see "Programmed play" on page 21):

In the MP3/WMA navigation mode, only program by folder (or title) name are played. When you exit the mode, the program by folder (or title) name are cleared.

When you exit the MP3/WMA navigation mode, program by track number are canceled.

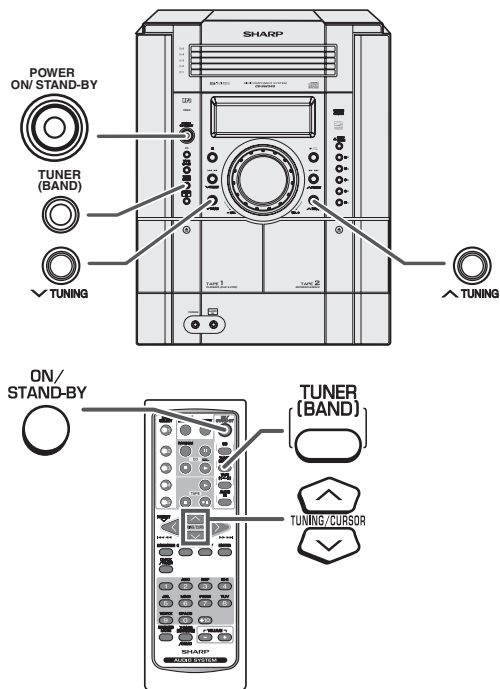
(Program by track number are cleared when you remove the disc.)

## To stop playback:

Press the CD ■ button.

- The programmed contents are not cleared.

# Listening to the AM/FM stations



## 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, AUDIO IN).

## ■ 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 on the remote control to tune in to the desired station.

### Manual tuning:

Press the TUNING (∨ or ∧) button as many times as required to tune in to the desired station.

### Auto tuning:

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

### Notes:

- When radio interference occurs, 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 (∨ or ∧) button again.

### To receive an FM stereo transmission:

Press the TUNER (BAND) button to select stereo mode and "ST" indicator will be displayed.

- "ST" 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



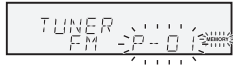
FM stereo receiving indicator

## ■ Memorizing 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 26.**

**2 Press the MEMORY button on remote control to enter the preset tuning saving mode.**



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

Store the stations in memory, in order, starting with preset channel 1.

**4 Within 30 seconds, press the MEMORY button on remote control to store that station in memory.**



If the "MEMORY" and preset number indicators disappear before the station is memorized, 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 memorized for that preset channel number will be erased.

### Note:

The backup function protects the memorized stations for a few hours should there be a power failure or the AC power cord become disconnected.

## ■ To recall a memorized station

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

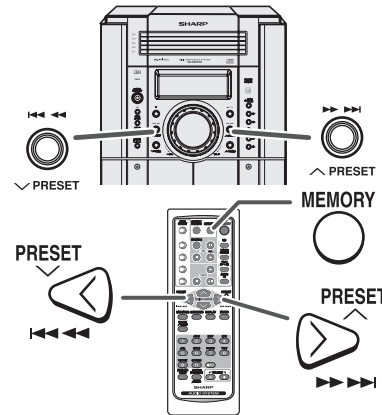
## ■ To scan the preset stations

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

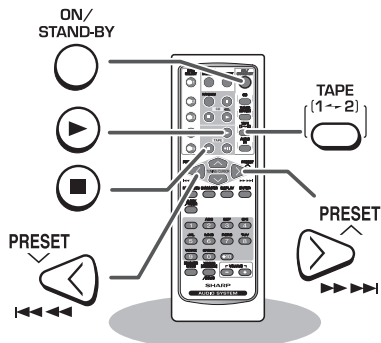
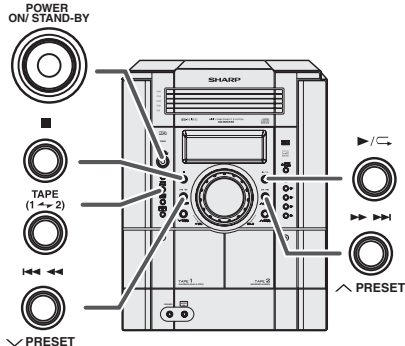
- 1 Press the ON/STAND-BY button to enter the stand-by mode.
- 2 While pressing down the ▲ button and the ◀◀◀ button, press the TUNER (BAND) button until "TUNER CL" appears.



# Listening to a cassette tape (TAPE 1 or TAPE 2)

## Before playback:

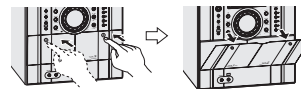
- For playback, use normal or low-noise tapes for the best sound. (Metal or CrO<sub>2</sub> tapes are not recommended.)
- Do not use C-120 tapes or poor-quality tapes, as they may cause malfunctions.
- Before loading a tape into the cassette compartment, tighten the slack with a pen or a pencil.



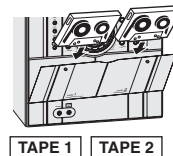
## ■ Tape playback

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

2 Open the cassette compartment by pushing the area marked "▲".



3 Load a cassette into the TAPE 1 compartment or TAPE 2 compartment with the side to be played facing toward you.



4 Press the TAPE (1 ~ 2) button to select the cassette you want to listen to.



5 Press the ►/◄ (TAPE ►) to start playback.



Tape play indicator

### Auto power on function:









When you press any of the following buttons, the unit turns on.

- TAPE (1 ~ 2) button (main unit and remote control): The unit turns on and the "TAPE" function is activated.
- TAPE ► button (remote control): The unit turns on and the "TAPE" function is activated.
- ►/◄ button (main unit): The unit turns on and playback of the last function starts (CD, TAPE, TUNER, AUDIO IN).

### Auto power off function:

In the stop mode of tape operation, the main unit enters the stand-by mode after 15 minutes of inactivity.

## ■ Various tape functions

Function	Main unit	Remote control	Operation
<b>Playback</b> 			Press in the stop mode.
<b>Stop</b> 			Press in the playback, fast forward or rewind mode.
<b>Fast forward/ Rewind</b> (TAPE 2 only)			Press in the playback or stop mode.

### Caution:

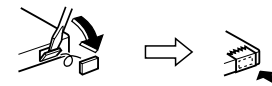
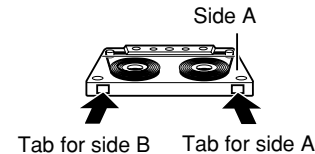
- To remove the cassette, press the ■ (TAPE ■) button, and then open the compartment.
- Before changing from one tape operation to another, press the ■ (TAPE ■) button.
- If a power failure occurs during tape operation, the tape head will remain engaged with the tape and the cassette door will not open.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

### Before recording:

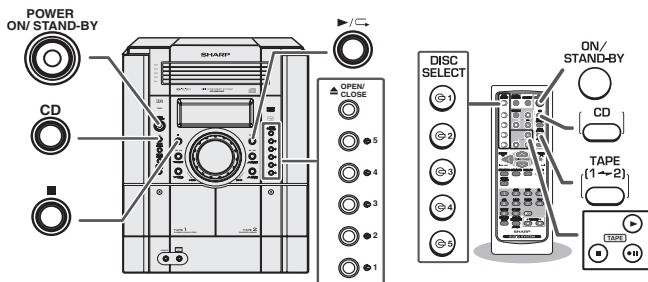
- When recording important selections, make a preliminary test to ensure that the desired material is properly recorded.
- SHARP is not liable for damage or loss of your recording arising from malfunction of this unit.
- The volume and sound controls can be adjusted with no effect on the recorded signal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

### Erase-prevention tab of cassette tapes:

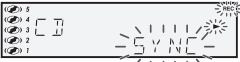
- When recording on a cassette tape, make sure that the erase-prevention tabs are not removed. Cassettes have removable tabs that prevent accidental recording or erasing.
- To protect the recorded sound, remove the tab after recording. Cover the tab hole with adhesive tape to record on the tape without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



## Recording on a cassette tape (continued)



### ■ Recording from a CD or MP3/WMA disc

- 1** Press the ON/STAND-BY button to turn the power on.
- 2** Press the CD button.
- 3** Load a cassette into the TAPE 2 cassette compartment with the side to be recorded on facing you.  
Wind past the leader of the tape, on which recording cannot be performed.
- 4** Press the **||** button.  
Recording will be paused. 
- 5** Press one of the **1 - 5** buttons to select the desired disc.
- 6** Within 5 seconds, press the **▶ / ◀** button to start recording.
  - 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.

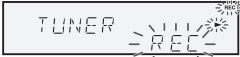
### To perform programmed recording:

- 1 Program discs and tracks (see page 21).
- 2 Press the **||** button.
- 3 Press the **▶ / ◀** (TAPE **▶**) button to start recording.

### To stop recording:

Press the **■** (TAPE **■**) button.  
The disc and tape will stop.

### ■ Recording from the radio

- 1** Tune in to the desired station (see page 26).
- 2** Load a cassette into the TAPE 2 cassette compartment with the side to be recorded on facing you.  
Wind past the leader of the tape, on which recording cannot be performed.
- 3** Press the **||** button.  
Recording will be paused. 
- 4** Press the **▶ / ◀** (TAPE **▶**) button to start recording.

### To interrupt recording:

Press the **||** button.  
To resume recording, press the **▶ / ◀** (TAPE **▶**) button.

### To stop recording:

Press the **■** (TAPE **■**) button.

### Note:

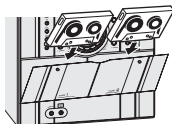
If you hear a whistling noise while recording an AM station, move the AM loop antenna.

## ■ Dubbing from tape to tape

You can record from TAPE 1 to TAPE 2.

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

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



TAPE 1 TAPE 2

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

**3 Press the TAPE (1 → 2) button until “TAPE 1” appears on the display.**

**4 Press the ●|| button.**

Recording will be paused.



**5 Press the ► / ◀ (TAPE ►) button to start dubbing.**

### To stop dubbing:

Press the ■ (TAPE ■) button.

TAPE 1 and TAPE 2 will stop simultaneously.

## ■ Erasing recorded tapes

- 1 Load the tape to be erased into the TAPE 2 cassette compartment with the side to be erased facing toward you.
- 2 Press the TAPE (1 → 2) button until “TAPE 2” appears on the display.
- 3 Press the ●|| button.
- 4 Press the ► / ◀ (TAPE ►) button to start erasing.

### Note:

Make sure that the TAPE 1 is not in use.

# Timer and sleep operation (Remote control only)

### 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 program on a radio station.

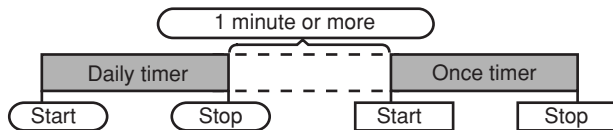
**Daily timer:** Daily timer play or daily timer recording works at the same preset time every day.

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 program, and use the daily timer to wake up.

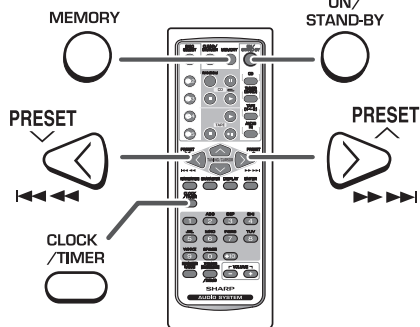
- 1 Set the daily timer (pages 32 - 33).
- 2 Set the once timer (pages 32 - 33).



### 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 and sleep operation (Remote control only) (continued)



### ■ Timer playback or timer recording

Before setting timer:

- 1 Check that the clock is set to the correct time (refer to page 16). 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 button.



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

**4** Within 10 seconds, press the **◀◀◀** or **▶▶▶** button to select "ONCE SET" or "DAILY SET", and press the MEMORY button.



**5** Press the **◀◀◀** or **▶▶▶** button to select "PLAY" or "REC", and press the MEMORY button.



The illustrations show the daily timer setting.

**6** Press the **◀◀◀** or **▶▶▶** button to adjust the hour and then press the MEMORY button.



The illustrations show the timer playback setting in the daily timer mode.

**7** Press the **◀◀◀** or **▶▶▶** button to adjust the minutes and then press the MEMORY button.



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

**9** Switch input with the **◀◀◀** or **▶▶▶** button, and then press the MEMORY button.

To select the timer playback source: CD, TUNER, TAPE 1 or TAPE 2.

To select the timer recording source: TUNER.

- When you select the tuner, select a station by pressing the **◀◀◀** or **▶▶▶** button, and then press the MEMORY button.
- If a station has not been programmed, "NO PRESET" will be displayed and timer setting will be canceled.

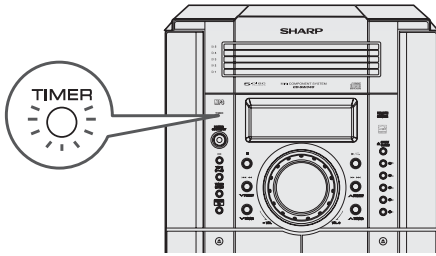


**10 Adjust the volume using the VOLUME control, and then press the MEMORY button.**

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.



**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 canceled.

The "⊙" indicator will blinking during timer playback.

**Daily timer:**

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

The "DAILY ⊙" indicator will blinking during timer playback.

**Note:**

When performing timer playback or recording using another unit connected to the AUDIO IN jack, select "AUDIO IN" 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 ◀◀◀◀ or ▶▶▶▶ button to select "ONCE" or "DAILY", and press the MEMORY button.
- 3 Within 10 seconds, press the ◀◀◀◀ or ▶▶▶▶ button to select "ONCE CALL" or "DAILY CALL", and press the MEMORY button. The unit returns to the timer stand-by mode after displaying the settings in order.

**Canceling the timer setting in the timer stand-by mode:**

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

**Reusing the memorized timer setting:**

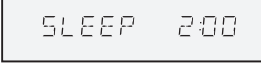

The timer setting will be memorized once it is entered. To reuse the same setting, perform the following operations.

- 1 Turn the power on and press the CLOCK/TIMER button.
- 2 Within 10 seconds, press the ◀◀◀◀ or ▶▶▶▶ button to select "ONCE" or "DAILY", and press the MEMORY button.
- 3 Within 10 seconds, press the ◀◀◀◀ or ▶▶▶▶ button to select "ONCE ON" or "DAILY ON", and press the MEMORY button.
- 4 Press the ON/STAND-BY button to enter the power stand-by mode.

## Timer and sleep operation (Remote control only) (continued)

### ■ Sleep operation

The radio, CD, MP3/WMA disc and cassette tape can all be turned off automatically.

<b>1</b>	<b>Play back the desired sound source.</b>	
<b>2</b>	<b>Press the CLOCK/TIMER button.</b>	
<b>3</b>	<b>Within 10 seconds, press the <math>\lll</math> or <math>\ggg</math> button to select "SLEEP", and press the MEMORY button.</b>	
<b>4</b>	<b>Press the <math>\lll</math> or <math>\ggg</math> button to select the time. (Maximum: 3 hours - Minimum: 1 minute)</b> <ul style="list-style-type: none"> <li>● 3 hours - 5 minutes → 5-minute intervals</li> <li>● 5 minutes - 1 minute → 1-minute intervals</li> </ul>	
<b>5</b>	<b>Press the MEMORY button.</b> "SLEEP" will appear.	
<b>6</b>	<b>The unit will enter the power stand-by mode automatically after the preset time has elapsed.</b> The volume will be turned down 1 minute before the sleep operation finishes.	

#### To confirm the remaining sleep time:

- While "SLEEP" is indicated, press the CLOCK/TIMER button.
  - Within 10 seconds, press the  $\lll$  or  $\ggg$  button to select "SLEEP X : XX".  
"X : XX" is remaining sleep time.
- The remaining sleep time is displayed for about 10 seconds.
  - You can change the remaining sleep time while it is displayed by pressing the MEMORY button. (Steps 4 - 5)

#### To cancel the sleep operation:

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

- While "SLEEP" is indicated, press the CLOCK/TIMER button.
- Within 10 seconds, press the  $\lll$  or  $\ggg$  button to select "SLEEP OFF", and press the MEMORY button.

### ■ To use timer and sleep operation together

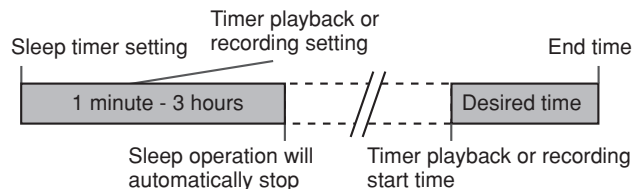
#### Sleep and timer playback:

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 programs while sleeping.

- Set the sleep time (see left, steps 1 - 5).
- While the sleep timer is set, set the timer playback or recording (steps 2 - 10, pages 32 - 33).

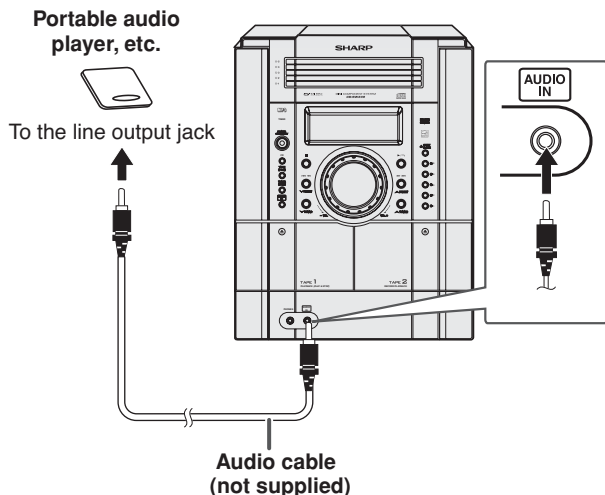


#### Caution:

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.

# Enhancing your system

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



## ■ Listening to sounds of Portable Audio Player, etc.

- 1 Connect a Portable Audio Player etc. to the front AUDIO IN jack.
- 2 Press the ON/STAND-BY button to turn the power on.
- 3 Press the AUDIO IN button.
- 4 Play the connected equipment.

You can enjoy sounds from the supplied speakers.

### Note:

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

### Auto power on function:

When you press any of the following buttons, the unit turns on.

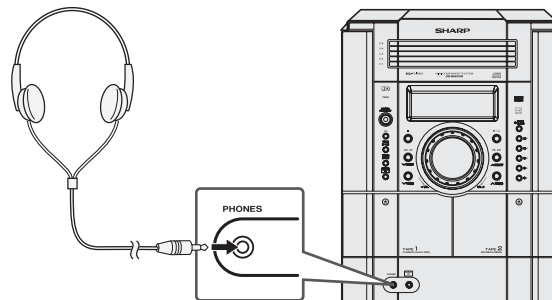
- AUDIO IN button (main unit and remote control): The unit turns on and the "AUDIO IN" function is activated.
- ► / ◀ button on the main unit: The unit turns on and playback of the last function starts (CD, TAPE, TUNER, AUDIO IN).

## ■ To record sounds of Portable Audio Player, etc.

- 1 Insert a cassette in the TAPE 2 cassette compartment.
- 2 Press the AUDIO IN button.
- 3 Press the ●II button.
- 4 Press the ► / ◀ button.
- 5 Play the Portable Audio Player, etc.

## ■ Headphones

- Before plugging in or unplugging the headphones, reduce the volume.
- Be sure your headphones have a 1/8" (3.5 mm) 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.



# 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 authorized SHARP dealer or service center.

## ■ General

Symptom	Possible cause
<ul style="list-style-type: none"> <li>● The clock is not set to the correct time.</li> </ul>	<ul style="list-style-type: none"> <li>● Did a power failure occur? Reset the clock. (Refer to page 16.)</li> </ul>
<ul style="list-style-type: none"> <li>● When a button is pressed, the unit does not respond.</li> </ul>	<ul style="list-style-type: none"> <li>● Set the unit to the power stand-by mode and then turn it back on.</li> <li>● If the unit still malfunctions, reset it. (Refer to page 37.)</li> </ul>
<ul style="list-style-type: none"> <li>● No sound is heard.</li> </ul>	<ul style="list-style-type: none"> <li>● Is the volume level set to "0"?</li> <li>● Are the headphones connected?</li> <li>● Are the speaker wires disconnected?</li> </ul>

## ■ CD player

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

## ■ Cassette deck

Symptom	Possible cause
<ul style="list-style-type: none"> <li>● Cannot record.</li> </ul>	<ul style="list-style-type: none"> <li>● Is the erase-prevention tab removed?</li> </ul>
<ul style="list-style-type: none"> <li>● Cannot record tracks with proper sound quality.</li> <li>● Cannot erase completely.</li> </ul>	<ul style="list-style-type: none"> <li>● Is it a normal tape? (You cannot record on a metal or CrO<sub>2</sub> tape.)</li> </ul>
<ul style="list-style-type: none"> <li>● Sound skipping.</li> <li>● Cannot hear treble.</li> <li>● Sound fluctuation.</li> </ul>	<ul style="list-style-type: none"> <li>● Is there any slack?</li> <li>● Is the tape stretched?</li> <li>● Are the capstans, pinch rollers, or heads dirty?</li> </ul>
<ul style="list-style-type: none"> <li>● Cannot remove the tape.</li> </ul>	<ul style="list-style-type: none"> <li>● If a power failure occurs during playback, the heads remain engaged with the tape. Do not open the compartment with great force.</li> </ul>

## ■ Remote control

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

## ■ Tuner

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

## ■ 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.

## ■ If problem occurs

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



### If such a problem occurs, do the following:

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

### Note:

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

## ■ Clearing all the memory (reset)

- Press the ON/STAND-BY button to enter the power stand-by mode.
- While pressing down the  button and the  button, press the CD button until "CLEAR ALL" appears.



### Caution:

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

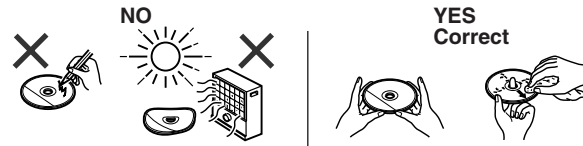
## ■ Before transporting the unit

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.

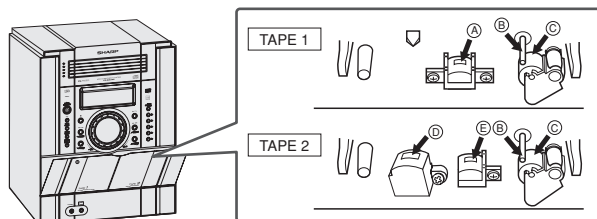
- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the center, along the radius.



# Maintenance

## ■ Cleaning the tape-handling parts

- Dirty heads, capstans or pinch rollers can cause poor sound and tape jams. Clean these parts with a cotton swab moistened with commercial head/pinch roller cleaner or isopropyl alcohol.
- When cleaning the heads, pinch rollers, etc., unplug the unit which contains high voltages.



- (A) Playback head
- (B) Capstans
- (C) Pinch rollers
- (D) Erase head
- (E) Recording/Playback head

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

## ■ Cleaning the CD pickup lens

In order to ensure proper operation of the CD player, preventative maintenance (cleaning of the laser pickup lens) should be performed periodically. Lens cleaners are commercially available. Contact your local CD software dealer for options.

## ■ 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 (gasoline, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the unit. It may cause malfunctions.

# Specifications

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

## ■ General

<b>Power source</b>	AC 120 V ~ 60 Hz
<b>Power consumption</b>	195 W
<b>Dimensions</b>	Width: 10-1/4" (260 mm) Height: 13" (332 mm) Depth: 12-7/8" (324 mm)
<b>Weight</b>	21.6 lbs. (9.8 kg)

## ■ Amplifier

<b>Output power</b>	Front Speakers RMS: Total 250 W (125 watts per channel into 6 ohms at 1 KHz, 10% Total harmonic distortion.) Front Speakers FTC: 100 watts minimum RMS per channel into 6 ohms from 100 Hz to 20 KHz, 10% Total harmonic distortion. Subwoofer RMS: 250 watts into 12 ohms at 100 Hz, 10% total harmonic distortion. Subwoofer FTC: 200 watts RMS into 12 ohms from 50 Hz to 120 Hz, 10% Total harmonic distortion.
<b>Output terminals</b>	Front Speakers: 6 ohms Subwoofer: 12 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)
<b>Input terminals</b>	AUDIO IN (audio signal): 500 mV/ 47 k ohms AUDIO IN: 1Vp-p

### ■ CD player

<b>Type</b>	5-disc multi-play compact disc player
<b>Signal readout</b>	Non-contact, 3-beam semiconductor laser pickup
<b>D/A converter</b>	Multi bit D/A converter
<b>Frequency response</b>	20 - 20,000 Hz
<b>Dynamic range</b>	90 dB (1 kHz)

### ■ Tuner

<b>Frequency range</b>	FM: 87.5 - 108.0 MHz AM: 530 - 1,720 kHz
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### ■ Cassette deck

<b>Frequency response</b>	50 - 14,000 Hz (normal tape)
<b>Signal/noise ratio</b>	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
<b>Wow and flutter</b>	0.3 % (WRMS)

### ■ Front Speaker

<b>Type</b>	2-way type speaker system 2" (5 cm) tweeter 6-5/16" (16 cm) woofer
<b>Maximum input power</b>	250 W
<b>Rated input power</b>	125 W
<b>Impedance</b>	6 ohms
<b>Dimensions</b>	Width: 7-7/8" (200 mm) Height: 13" (330 mm) Depth: 8 - 11/16" (220.5 mm)
<b>Weight</b>	7.0 lbs. (3.18 kg) /each

### ■ Subwoofer

<b>Type</b>	Subwoofer system 8" (20 cm) subwoofer
<b>Maximum input power</b>	500 W
<b>Rated input power</b>	250 W
<b>Impedance</b>	12 ohms
<b>Dimensions</b>	Width: 9-13/16" (250 mm) Height: 13" (330 mm) Depth: 11-5/16" (288 mm)
<b>Weight</b>	12.9 lbs. (5.85 kg)

## CONSUMER LIMITED WARRANTY

SHARP ELECTRONICS CORPORATION warrants to the first consumer purchaser that this Sharp brand product (the Product), when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any appearance items of the Product nor to the additional excluded item(s) set forth below nor to any Product the exterior of which has been damaged or defaced, which has been subjected to improper voltage or other misuse, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser should follow the steps set forth below and provide proof of purchase to the servicer.

The limited warranty described herein is in addition to whatever implied warranties may be granted to purchasers by law. ALL IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE PERIOD(S) FROM THE DATE OF PURCHASE SET FORTH BELOW. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described herein on behalf of Sharp.

The warranties described herein shall be the sole and exclusive warranties granted by Sharp and shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of Sharp to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event shall Sharp be liable, or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than an authorized servicer. Nor shall Sharp be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

### **Model Specific Section**

**Your Product Model Number & Description:**

### **CD-SW340 Mini Component System**

(Be sure to have this information available when you need service for your Product.)

**Warranty Period for this Product:**

One (1) year parts and labor from the date of purchase.

**Additional Item(s) Excluded from Warranty Coverage (if any):**

Non-functional accessories, supplies, and consumable items.

**Where to Obtain Service:**

At a Sharp Authorized Servicer located in the United States.

To find a location of the nearest Sharp Authorized Servicer, call Sharp toll free at 1-800-BE-SHARP.

**What to do to Obtain Service:**

Ship prepaid or carry in your Product to a Sharp Authorized Servicer.

Be sure to have **Proof of Purchase** available. If you ship the Product, be sure it is insured and packaged securely.

TO OBTAIN SUPPLY, ACCESSORY OR PRODUCT INFORMATION, CALL **1-800-BE-SHARP**.

# SHARP®

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