

Studebaker

Studebaker AI Hearing System SB4200 Owner's Manual



- Patent Pending
- Unlike any other hearing product you can buy

**Smart Hearing Support for Restaurants, TV Listening and
Anyplace where Ambient Noise makes it difficult to hear**

WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT USE THIS PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE. TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

 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 is enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.	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.	 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.
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The Rating plate is located at the bottom enclosure of the apparatus.

IMPORTANT SAFETY INSTRUCTIONS

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 product heat.
9. AC adaptor is used as disconnect device and it should remain readily operable during intended use. To disconnect the apparatus from the mains completely, the AC adaptor should be disconnected from the mains socket outlet completely.
10. Only use attachments/accessories specified by the manufacturer.
11. Unplug this apparatus during lightning storms or when unused for a long period of time.
12. 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.
13. This appliance shall not be exposed to dripping or splashing water and that no object filled with liquids such as vases shall be placed on the apparatus.
14. Do not overload wall outlet. Use only power source as indicated.
15. Use replacement part as specified by the manufacturer.
16. Upon completion of any service or repairs to this product, ask the service technician to perform safety checks.

17. 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 products intended to operate from battery power, or other sources, refer to the operating instruction.
18. 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.
19. Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a) When the power-supply cord or plug is damaged,
 - b) If liquid has been spilled, or objects have fallen into the product,
 - c) If the product has been exposed to rain or water,
 - d) 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.
 - e) If the product has been dropped or damaged in any way, and
 - f) When the product exhibits a distinct change in performance - this indicates a need for service.
20. The battery shall not be exposed to excessive heat such as sunshine, fire or the like.
21. Minimum distances of 4 inches around the apparatus for sufficient ventilation.
22. The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.
23. No open flame sources, such as lit candles, should be placed on the product.
24. The use of apparatus in moderate climates is advised.
25. Attention should be drawn to the environmental aspects of battery disposal.
26. The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

SAVE THESE INSTRUCTIONS

COMPLIANCE WITH FCC REGULATIONS

FCC ID: 2A38HSB4200

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

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.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

PROTECT YOUR FURNITURE!!

This system is equipped with non-skid rubber 'feet' to prevent the product from moving when you operate the controls. These 'feet' are made from non-migrating rubber material specially formulated to avoid leaving any marks or stains on your furniture. However certain types of oil based furniture polishes, wood preservatives, or cleaning sprays may cause the rubber 'feet' to soften, and leave marks or a rubber residue on the furniture.

To prevent any damage to your furniture we strongly recommend that you purchase small self-adhesive felt pads, available at hardware stores and home improvement centers everywhere, and apply these pads to the bottom of the rubber 'feet' before you place the product on fine wooden furniture.

DEAR STUDEBAKER CUSTOMER

Dear Studebaker Customer

Thank you from all of us at Studebaker for trusting us to give you an unbelievable experience with our AT Hearing System.

No matter how sophisticated normal ear hearing products are, there is no way they can eliminate the ambient noise that makes hearing so difficult in a restaurant, automobile, or any other venue where there is ambient noise.

We have worked for 3 years to bring this concept to you, and we sincerely hope this allows you to finally enjoy dinner at your favorite restaurant with your family and friends.

ESTABLISH THE BEST SOUND LEVEL

- The microphones have adjustable sound levels and during your first use try some of the adjustments to reach the best level for you.
- We recommend you adjust one level at a time until you find the optimum volume setting



Customer's Record:

The serial number of this product is found on its bottom. You should note the serial number of this unit in the space provided as a permanent record of your purchase to aid in identification in the event of theft or loss.

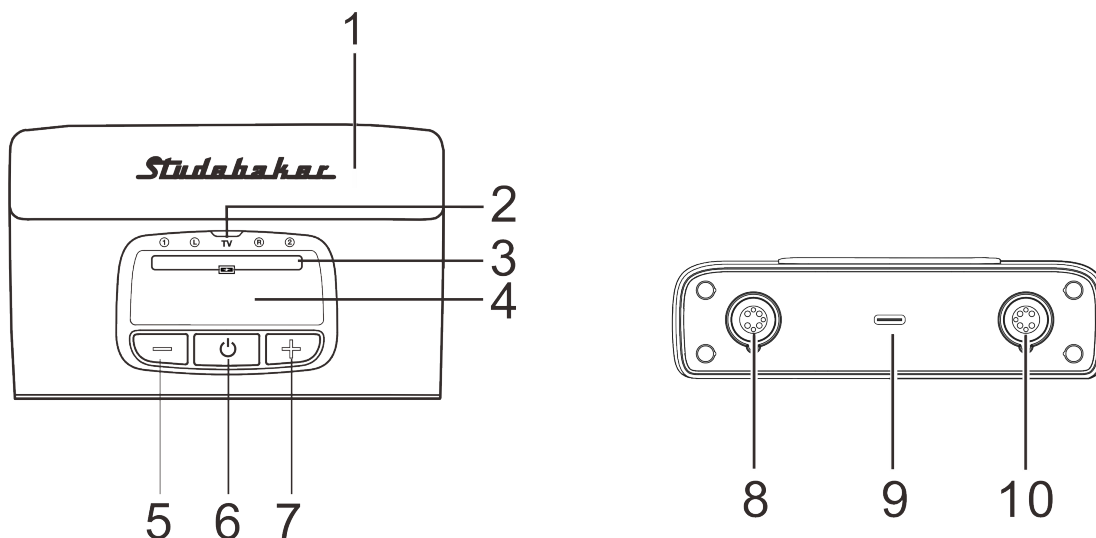
Model Number: SB4200

Serial Number:

WHAT'S IN THE BOX?

1. Central Processor x 1
2. Charging Station x 1
3. Earphone x 2
4. Microphone x 2
5. AC adapter x 1
6. RCA to 3.5mm Audio Cable x 1
7. Manual x 1

LOCATION OF CONTROLS



1. CENTRAL PROCESSOR LID
2. TV MODE INDICATOR
Indicates the operating status of Central Processor.

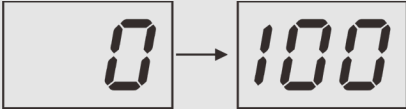
Blinking Pattern	Descriptions
Solid White	Central Processor operates in TV mode

3. MICROPHONE / EARPHONE BATTERY LEVEL INDICATOR
Indicates the battery level of the corresponding Microphone and Earphone.
1 – Battery level of Microphone 1.
L – Battery level of Left Earphone.
R – Battery level of Right Earphone.
2 – Battery level of Microphone 2.

Blinking Pattern	Descriptions
1 L R 2	Battery level indicator
	Light solid Green, battery Level: 80~100%
	Light solid Red, battery Level: 0~79%

4. CENTRAL PROCESSOR BATTERY LEVEL INDICATOR

Indicates the battery level of Central Processor.

Display Pattern	Descriptions
	Battery level of Central Processor: 0 – 100%

5. VOLUME DOWN BUTTON

Decreases the earphone volume.

6. POWER BUTTON

Press and hold for 2 seconds to power on or off the Central Processor.
Short press to check the batteries level.

Blinking Pattern	Descriptions
Solid White	Central Processor in charging
Solid Red	Central Processor powered on
Off	Central Processor powered off

7. VOLUME UP BUTTON

Increases the earphone volume.

8. CHARGING STATION CONNECTOR

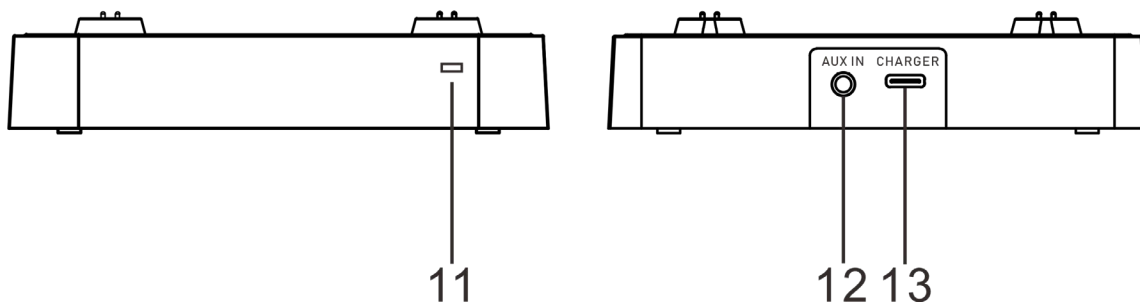
Connects to Charging Station.

9. DC5V JACK

For charging the Central Processor.

10. CHARGING STATION CONNECTOR

Connects to Charging Station.



11. POWER INDICATOR

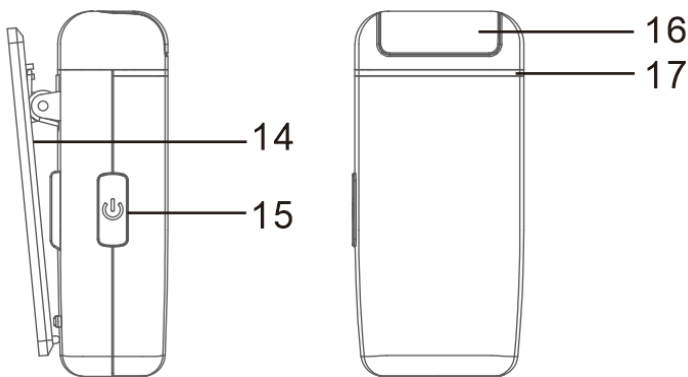
Indicates the connection status with the USB power.

12. AUX IN JACK

For audio input from TV.

13. CHARGER JACK

For connecting to power adaptor.



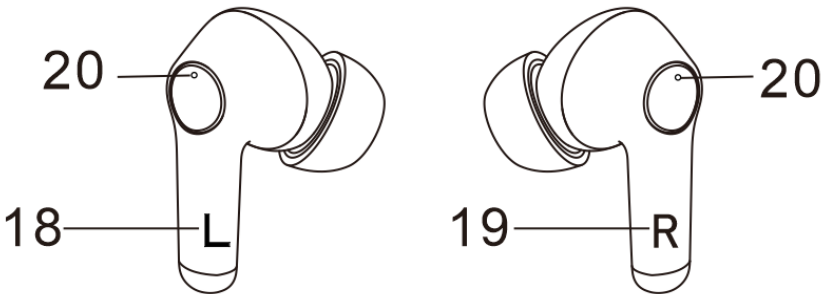
14. MICROPHONE CLIP
Use to attach the Microphone to clothes.

15. POWER BUTTON
Press and hold to power on and off the Microphone.

16. MICROPHONE WINDSCREEN

17. MICROPHONE STATUS INDICATOR
Indicates the status of the Microphone.

Blinking Pattern	Descriptions
Solid Green	Connected with the Central Processor
Blinks Green slowly	Disconnected from the Central Processor
Blinks Green quickly	Linking
Blinks Red slowly	Low battery
Off	Power off



18. LEFT EARPHONE

19. RIGHT EARPHONE

20. EARPHONE STATUS INDICATOR

Blinking Pattern	Descriptions
Solid Green	Connected with the Central Processor
Blinks Green slowly	Disconnected from the Central Processor
Blinks Green quickly	Linking
Blinks Red slowly	Low battery
Off	Power off

POWER SOURCE

Rechargeable lithium batteries are installed in the unit.



Lithium Battery Safety Instructions

Do not burn or bury batteries. Do not puncture or crush. Do not disassemble.

Recycle Lithium batteries. Do not dispose of in the trash.

If the electrolyte in the cells should get on your skin, thoroughly wash with soap and water. If in the eyes, rinse thoroughly with cool water. Immediately seek medical attention.

Use only chargers rated for Lithium cells. Be sure the charger's voltage and current settings are correct for the battery pack being charged.

Charge batteries on a fireproof surface away from flammable items or liquids. Batteries should NEVER be left unattended while charging. Only adults should charge the batteries.

Follow the manufacturer's instructions for charging the product and do not charge longer than recommended. Unplug the charger when the battery is charged.



Recycle Rechargeable Batteries

Recycle your old rechargeable batteries at one of the many collection sites in the U.S. and Canada. To find the site nearest you, visit www.call2recycle.org or call toll-free 1-877-2-RECYCLE.

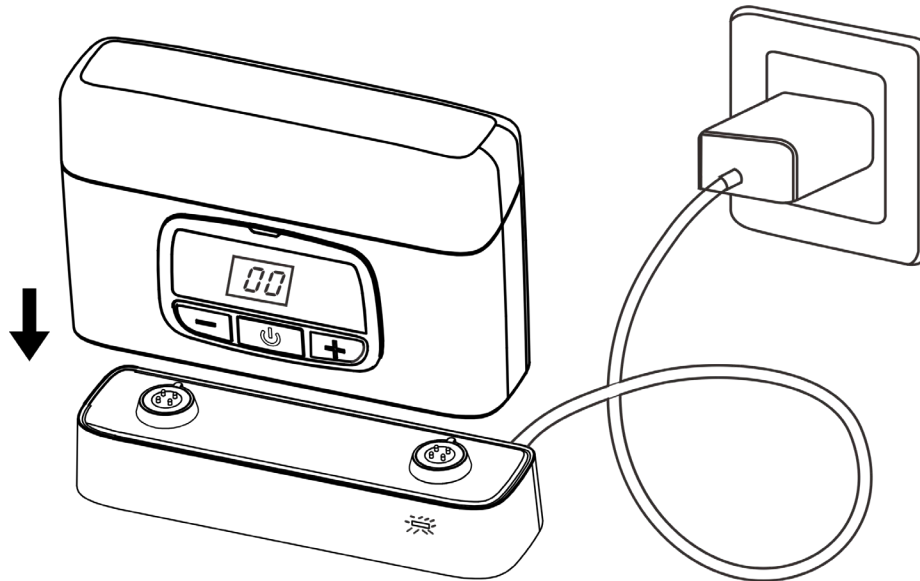
USB POWER

CHARGING THE CENTRAL PROCESSOR

1. The Central Processor can be charged either by the Charging Station or the USB-C charging port on the back of the Central Processor.
2. Put the Microphones and Earphones in Central Processor.
3. Ensure the AC adapter is plugged into a 120V AC, 60Hz household outlet.
4. Firmly and securely insert the USB-C plug of the AC adaptor into CHARGER JACK (#13) in the back of the Charging Station and put the Central Processor on the Charging Station.
- OR -
5. Firmly and securely insert the USB-C plug of the AC adaptor into DC5V JACK (#9) on the bottom of the Central Processor.
6. The POWER INDICATOR (#11) LED on the Charging Station will light solid White and the POWER BUTTON (#6) LED on the Central Processor will light solid White showing that

the power is connected.

7. The 3 digits CENTRAL PROCESSOR BATTERY LEVEL INDICATOR (#4) will light up 0-100 showing the battery level of the Central Processor battery level for 10 seconds. The LED displays 100 when the Central Processor built-in battery is fully charged.
8. The MICROPHONE / EARPHONE BATTERY LEVEL INDICATORS (#3) will light up solid Red/Green showing the battery level of Microphones and Earphones for 10 seconds. The LED lights up solid Red when the corresponding Microphone/Earphone built-in battery is low battery and in charging. The LED lights up solid Green when the corresponding Microphone/Earphone built-in battery is fully charged.
9. Short press the POWER BUTTON (#6) to display the battery levels again for 10 seconds.



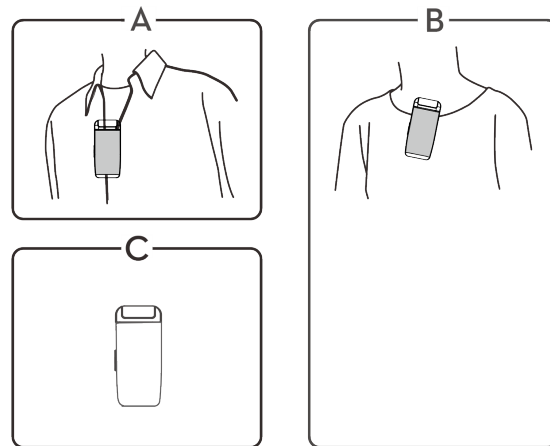
Notes:

- Charge the built-in Lithium battery a minimum of 5 hours prior to first use.
- The Earphones and Microphones in the Central Processor will be recharged only if the Central Processor is powered on or the power adaptor is connected.

RESTAURANT MODE OPERATION

1. Press and hold the POWER BUTTON (#6) on the Central Processor to power on the Central Processor. The POWER BUTTON (#6) LED will light solid Red showing that the Central Processor powered on.
2. Open the lid (#1) of Central Processor and take out the Earphones.
3. The STATUS INDICATOR (#20) LED on the Earphone will blink Green while connecting to the Central Processor.
4. The STATUS INDICATOR (#20) LED on the Earphone will turn solid Green when the connection is completed.
5. Put the Earphones into the ears.
6. Take out the Microphones.

7. The STATUS INDICATOR (#17) LED on the Microphone will blink Green quickly while connecting to the Central Processor.
8. The STATUS INDICATOR (#17) LED on the Microphone will light up solid Green when the connection is completed.
9. Check to make sure the microphone sound is transmitting to the earphones.,
10. Attach the Microphone to clothes using the MICROPHONE CLIP (#14). The closer to your mouth, the better.

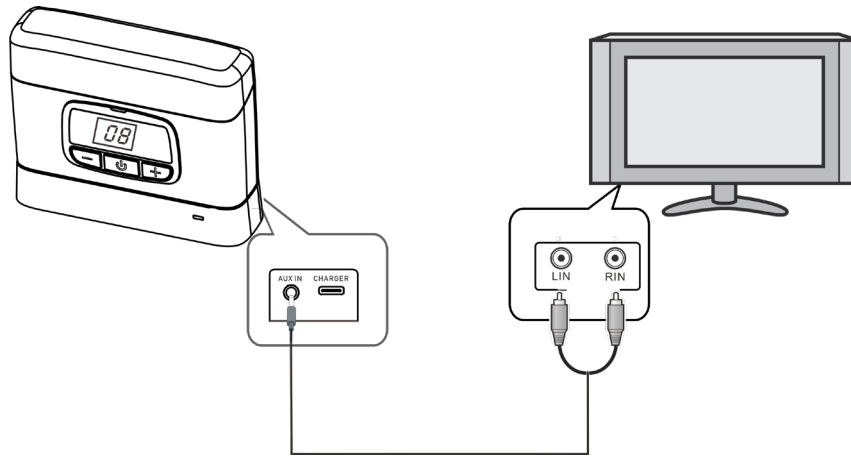


11. Press VOLUME UP BUTTON (#7) / VOLUME DOWN BUTTON (#5) to adjust the desired sound level. You will hear a prompt sound when you press the VOLUME UP BUTTON (#7) / VOLUME DOWN BUTTON (#5) and has another prompt sound once it reaches the maximum volume.
12. Earphone Battery Warning System: the STATUS INDICATOR (#20) LED on the Earphone will blink Red when your battery is running low. You will also hear a beeping sound indicating that you have only about 10 minutes of power left. You can put the Earphones back in the Central Processor to recharge if you need more time.
13. Microphone Battery Warning System: the STATUS INDICATOR (#17) LED on the Microphone will blink Red slowly to indicate you only have about 10 minutes of power remaining. You can put the Microphone back in the central processor to recharge if you need more time.

Note: The Central Processor has a longer battery life than the microphones and earphones so it will be able to recharge those items if needed before the Central Processor needs to be recharged itself.

TV MODE OPERATION

1. Firmly and securely insert the USB-C plug of the AC adaptor into CHARGER JACK (#13) on the back of the Charging Station.
2. Ensure the AC adaptor is plugged into a 120V AC, 60Hz household outlet.
3. Firmly and securely insert the 3.5mm plug of the Audio Cable into AUX IN JACK (#12) on the back of the Charging Station.
4. Connect the RCA plug of the Audio Cable into TV AUDIO OUT jack on your TV.



5. Press and hold the POWER BUTTON (#6) on the Central Processor to power it on. The POWER BUTTON (#6) LED will light solid Red showing that the Central Processor powered on.
6. Put the Central Processor back on the Charging Station.
7. The TV MODE INDICATOR (#2) LED will light up solid White showing that the Central Processor in TV mode.
8. Open the lid of the Central Processor and take out the Earphones.
9. The STATUS INDICATOR (#20) LED on the Earphone will flash Green while connecting to the Central Processor.
10. The STATUS INDICATOR (#20) LED on the Earphone will light solid Green when the connection is completed
11. When the Earphones are confirmed connected to the Central Processor, they are ready for use.
12. Press VOLUME UP BUTTON (#7) / VOLUME DOWN BUTTON (#5) to adjust the desired sound level. You will hear a prompt sound when you press the VOLUME UP BUTTON (#7) / VOLUME DOWN BUTTON (#5) and has another prompt sound once it reaches the maximum volume.
13. Earphone Battery Warning System: the STATUS INDICATOR (#20) LED on the Earphone will blink Red when your battery is running low. You will also hear a beeping sound indicating that you have only about 10 minutes of power left. You can put the Earphones back in the Central Processor to recharge if needed.

Note:

- The microphones are disconnected when the unit is in TV mode.



Bluetooth technology is used to transmit signals from the microphones to the earphones included with the SB4200. The microphones and earphones cannot be paired with any other Bluetooth enabled devices.

CARE AND MAINTENANCE

1. Do not subject the unit to excessive force, shock, dust or extreme temperature.
2. Do not tamper with the internal components of the unit.
3. Clean your unit with a dry cloth. Solvent or detergent should never be used.
4. Avoid leaving your unit in direct sunlight or in hot, humid or dusty places.
5. Keep your unit away from heating appliances and sources of electrical noise such as fluorescent lamps or motors.



At Spectra, environmental and social responsibility is a core value of our business. We are dedicated to continuous implementation of responsible initiatives with an aim to conserve and maintain the environment through responsible recycling.

Please visit us at <http://www.spectraintl.com/green.htm> for more information on Spectra's green initiatives or to find a recycler in your area.

TROUBLE SHOOTING GUIDE

If you experience difficulties in the use of this AI hearing system, please check the following or call 1-800-777-5331 for Customer Service and support.

Symptom	Possible Cause	Solution
Sound appears distorted at high volume setting	- Volume control is set to maximum.	- Adjust Volume control to a lower comfortable level.
No charging from the USB port	- The USB cable is damaged or not securely attached	- Replace the USB cable or try reconnecting it again.
No sound on Earphone	- The Earphone is not connected with the Central Processor. - The Earphone placement may be out of range. - Volume set too low. - The Earphone battery is low or out of power.	- Put the Earphone back in the Central Processor and take it out again. Go through the connection process again. - Relocate the Earphone within Bluetooth operating range. - Adjust volume control to turn the sound level up. - Put the Earphone back to Charging Station for charging.
No sound on Microphone	- The Microphone is not connected with the Central Processor Case. - The Microphone is out of range. - Volume set too low. - The Microphone is battery low.	- Put the Microphone back to Central Processor and take it out again to go through the connection process again. - Relocate the Microphone within Bluetooth operating range. - Adjust Volume control to turn the sound level up. - Put the Microphone back to

		Charging Station for charging.
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SPECIFICATION

AC adaptor:

Input: AC 100-240V~ 50/60Hz 0.8A Max.

Output: DC 5V== 1A

Internal Li-Polymer battery:

Input (USB-C port): DC 5V/1A

1 YEAR LIMITED WARRANTY AND SERVICE VALID IN THE U.S.A. ONLY

SPECTRA MERCHANDISING INTERNATIONAL, INC. warrants this unit to be free from defective materials or factory workmanship for a period of 1 year from the date of original customer purchase and provided the product is utilized within the U.S.A. This warranty is not assignable or transferable. Our obligation under this warranty is the repair or replacement of the defective unit or any part thereof, except batteries, when it is returned to the SPECTRA Service Department, accompanied by proof of the date of original consumer purchase, such as a duplicate copy of a sales receipt.

You must pay all shipping charges required to ship the product to SPECTRA for warranty service. If the product is repaired or replaced under warranty, the return charges will be at SPECTRA's expense. There are no other express warranties other than those stated herein. This warranty is valid only in accordance with the conditions set forth below:

1. The warranty applies to the SPECTRA product only while:
 - a. It remains in the possession of the original purchaser and proof of purchase is demonstrated.
 - b. It has not been subjected to accident, misuse, abuse, improper service, usage outside the descriptions and warnings covered within the user manual or non-SPECTRA approved modifications.
 - c. Claims are made within the warranty period.
2. This warranty does not cover damage or equipment failure caused by electrical wiring not in compliance with electrical codes or SPECTRA user manual specifications, or failure to provide reasonable care and necessary maintenance as outlined in the user manual.
3. Warranty of all SPECTRA products applies to residential use only and is void when products are used in nonresidential environment or installed outside the United States.

This warranty gives you specific legal rights, and you may also have other rights which vary

from state to state. TO OBTAIN SERVICE please remove all batteries (if any) and pack the unit carefully and send it freight prepaid to SPECTRA at the address shown below. IF THE UNIT IS RETURNED WITHIN THE WARRANTY PERIOD shown above, please include a proof of purchase (dated cash register receipt) so that we may establish your eligibility for warranty service and repair of the unit without cost. Also include a note with a description explaining how the unit is defective. A customer service representative may need to contact you regarding the status of your repair, so please include your name, address, phone number and email address to expedite the process.

It is recommended that you contact SPECTRA first at 1-800-777-5331 or by email at custserv@spectraintl.com for updated information on the unit requiring service. In some cases, the model you have may be discontinued, and SPECTRA reserves the right to offer alternative options for repair or replacement.

SPECTRA MERCHANDISING INTERNATIONAL, INC.

4230 North Normandy Avenue,

Chicago, IL60634, USA. 1-800-777-5331

To register your product, visit the link on the website below to enter your information.

<http://www.spectraintl.com/wform.htm>

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