

INSTRUCTION MANUAL

SONAMP® A800 SUBWOOFER AMPLIFIER



Introduction

Thank you for purchasing the Sonance Sonamp® A800 subwoofer amplifier. When properly installed, this amplifier will give you many years of entertainment pleasure. To get the most out of your new amplifier, please read this manual thoroughly before you begin installation. To achieve the best performance, Sonance recommends that this amplifier be installed by a Sonance Authorized Dealer/Installer.

Important Safety Instructions

Basic safety precautions should always be followed when using your A800 amplifier, to reduce risk of fire, electric shock, and injury to persons:

1. **Read** and understand all instructions.
2. **Retain** these instructions for future reference.
3. **Follow** all warnings and instructions in this manual and marked on the product.
4. Any service or repair required must be performed by qualified factory-authorized personnel.
5. Do not use the amplifier in a high-humidity environment or near water — for example in a wet basement, or near a wet bar or swimming pool.
6. Always provide adequate ventilation for the amplifier. Allow a minimum of one (1) inch above and three (3) inches behind the amplifier. Do not block the cooling vents on the amplifier case.
7. The amplifier should be situated away from heat sources such as heat registers, radiators, stoves, or other appliances that produce heat.
8. The amplifier should only be connected to a power supply of the type marked on its back panel. The power supply cord should be routed to avoid damage from contact with sharp objects or being stepped on.
9. Unplug the amplifier during thunderstorms or when it will be unused for extended periods of time.
10. Exercise care to avoid spilling liquids on or in the amplifier.
11. Do not place the amplifier on an unstable table, stand, or cart. Improper placement of the amplifier may cause it to fall on an adult or child causing serious injury, as well as damage to the amplifier.
12. Do not expose the amplifier to dripping or splashing. Do not place objects filled with liquids, such as vases, on the amplifier.
13. **Cleaning:** To clean the amplifier, wipe it with a soft cloth. Do not use solvents, as they may damage the amplifier.
14. **Non-Use Periods:** Unplug the amplifier's power cord from the electrical outlet when the woofer will be unused for a long period of time.



15. **Damage Requiring Service:** The amplifier should be serviced by qualified service personnel when:
 - A. The power cord or plug has been damaged
 - B. Objects have fallen, or liquids have been spilled into the amplifier
 - C. The amplifier has been exposed to rain.
 - D. The amplifier does not appear to be operating properly or exhibits a marked change in performance.
 - E. The amplifier has been dropped or appears to have been damaged.
16. **Servicing:** The user should not attempt to service the amplifier beyond that described in these instructions. All other servicing should be referred to qualified service personnel.
17. **Storms:** To prevent damage to components, unplug all electronic equipment during thunderstorms.



WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. THE APPLIANCE SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING. NO OBJECTS FILLED WITH LIQUIDS SHALL BE PLACED ON THE APPLIANCE.

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



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.



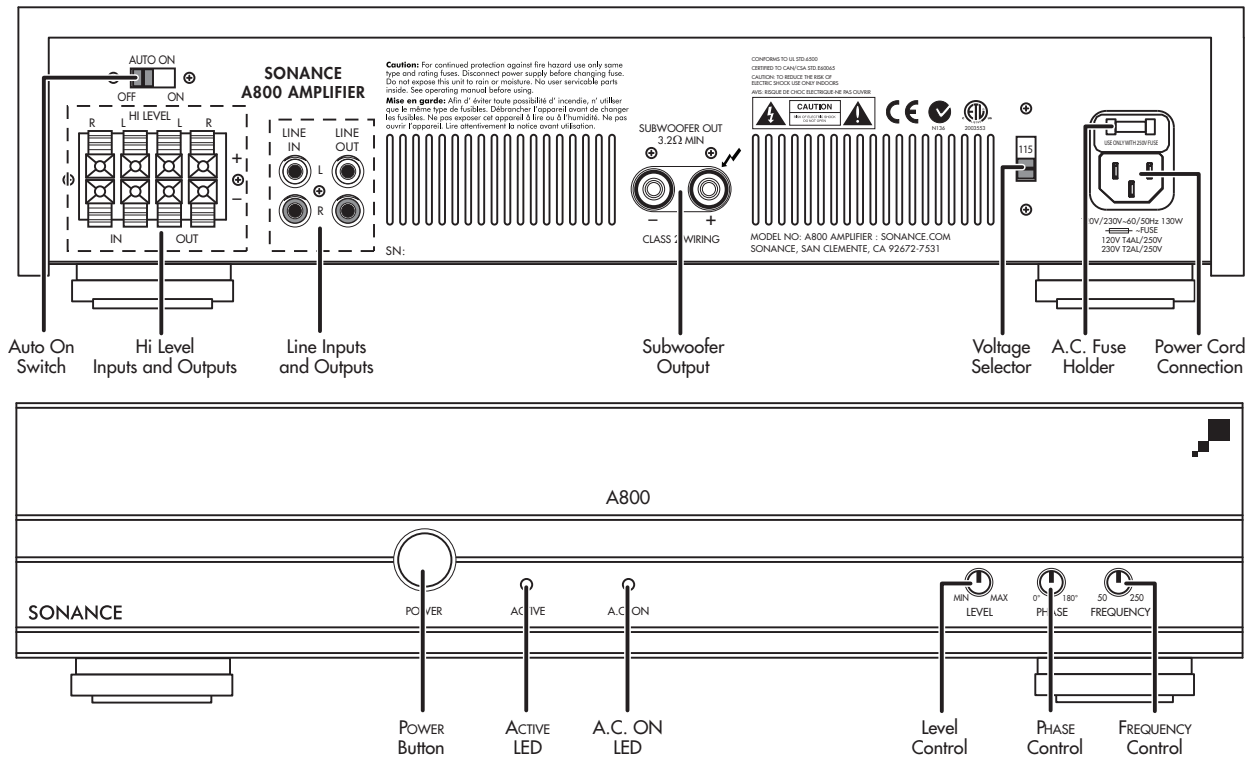
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Box Contents

Your Sonance A800 Amplifier box should contain the following items:

- (1) Sonance A800 Amplifier
- (1) IEC Power Cord (120V version only)

SONAMP® A800 SUBWOOFER AMPLIFIER



A800 SUBWOOFER AMPLIFIER FRONT AND REAR PANELS

Rear Panel Features

Power Cord Connection

The A800 features a removable IEC power connector. (A power cord is included only with the 120V version of the amplifier.) Plug the female end of the power cord into the Power Cord Connector on the amplifier rear panel and plug the male end into a grounded wall socket. Do NOT plug the amplifier's power cord into a convenience outlet on any other audio or video component.

IMPORTANT: DO NOT PLUG THE POWER CORD INTO THE WALL OUTLET UNTIL ALL SYSTEM CONNECTIONS HAVE BEEN MADE AND VERIFIED.

NOTE: IF YOU NEED TO USE AN EXTENSION CORD, USE ONLY A HEAVY-DUTY (14-GAUGE OR LARGER) EXTENSION CORD TO AVOID STARVING THE AMPLIFIER OF ALL THE CURRENT NECESSARY FOR FULL-POWER OPERATION.

A.C. Fuse Holder

120V versions of the A800 amplifier is shipped with a 4 amp AC fuse installed. 230V versions have a 2 amp AC fuse installed.

To replace the fuse, unplug the power cord from the Power Cord Connector and use a screwdriver to remove the fuse holder.

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE, REPLACE THE FUSE WITH ONLY THE SAME TYPE AND RATING.

Voltage Selector

The A800 can operate from either 120V/60Hz or 230V/50Hz current. The Voltage Selector is factory-set to the proper voltage for the region the A800 is shipped to.

Changing the Voltage

If you want to use the A800 in a different region than it was originally shipped, you can change its operating voltage.

IMPORTANT: Remove the power cord from the amplifier and the wall outlet before changing the voltage

1. Remove the power cord from the wall outlet and from the amplifier's Power Cord Connection.
2. Insert a flat-blade screwdriver or similar tool into the empty power cord socket and gently pry the fuse holder out of its socket.
3. Install the proper fuse for the region where the amplifier will be operated:
 - 120V current = 4A, 250V (T4AL/250V) fuse**
 - 230V current = 2A, 250V (T2AL/250V) fuse**
4. Replace the fuse holder back into its socket above the power cord connection.
5. Use a flat-blade screwdriver or similar tool to change the Voltage Switch to the proper setting for the region where the amplifier is being used.



6. Replace the power cord with one that is correct for the region where the amplifier is being used.

Line Inputs and Outputs

The A800 amplifier has LINE INPUTS and LINE OUTPUTS. Use these connections if your receiver or preamp has a line-level subwoofer output. If the subwoofer output is mono you can connect it to either the A800's Left or Right LINE INPUT.

If your system has a separate preamp and power amplifier you can use the A800's LINE INPUT and LINE OUTPUT jacks to connect the amplifier between the preamp and power amp.

IMPORTANT: IF YOU ARE USING THE A800'S HI LEVEL INPUTS (SEE PAGE 3), DO NOT MAKE ANY CONNECTIONS TO THE LINE LEVEL INPUTS.

Hi LEVEL Inputs and Outputs

CAUTION: DO NOT CONNECT THE A800'S HI LEVEL INPUTS TO AN AMPLIFIER WITH A FLOATING GROUND OR A BRIDGED OUTPUT. BEFORE USING THE HI LEVEL INPUTS, CHECK THE OTHER AMPLIFIER'S DOCUMENTATION.

If your system's electronics do not have preamp outputs or subwoofer outputs you can connect its left and right speaker outputs to the A800's Hi LEVEL Inputs. Then connect the A800's Hi LEVEL Outputs to your left and right speakers. Always make sure to connect the A800's "+" terminals to the electronics' and speakers' "+" terminals, and its "-" terminals to the electronics' and speakers' "-" terminals.

IMPORTANT: IF YOU ARE USING THE A800'S LINE LEVEL INPUTS (SEE ABOVE), DO NOT MAKE ANY CONNECTIONS TO THE HI LEVEL INPUTS.

AUTO ON Switch

When this switch is in the ON position the A800 will automatically turn ON when it senses a signal on either of its inputs. The amplifier will remain on for approximately 5 minutes after the signal has ceased. If you want to manually turn the amplifier ON and OFF, set the AUTO ON switch to the OFF position. This allows the amplifier to be switched ON and OFF by the front-panel POWER button.

Subwoofer Output

The A800 amplifier features a binding post speaker connector that can accept bare wire and wire terminated in pins or single banana connectors. The amplifier can drive a single Virtuoso in-wall or in-ceiling woofer, or two Virtuoso woofers connected in parallel.

NOTE: IF USING SINGLE BANANA CONNECTORS, BE SURE THE SUBWOOFER OUTPUT TERMINALS ARE CLOSED (ROTATED FULLY CLOCKWISE) BEFORE INSERTING THE CONNECTOR.

If you use bare wire, make sure you strip only enough wire (1/2") to fit into the hole in the terminal. Before inserting the wire, twist all strands tightly to prevent strays that could cause a short circuit between the "+" and "-" terminals. To make a secure

connection, insert the wire in the direction of terminal rotation (clockwise) to force the wire around the terminal post.

Front Panel Features

POWER Button

When the rear-panel AUTO ON switch is in the OFF position, the POWER button turns the A800 ON and OFF. If the AUTO ON switch is in the ON position the POWER button will have no effect.

ACTIVE LED

The ACTIVE LED illuminates whenever the A800 is operating.

A.C. ON LED

The POWER LED indicates that the A800 is connected to an active power outlet.

LEVEL Control

The LEVEL control sets the subwoofer's volume. When setting the A800's LEVEL control by ear, try to find a volume setting where the bass sounds balanced on both music and films. Listen to several different music recordings and film soundtracks that contain strong bass passages and try to find a setting for the LEVEL control that doesn't over-emphasize the bass or make it sound weak.

The most accurate way to set the LEVEL control is with calibrated test noise or test tones and a sound-pressure level (SPL) meter or real-time analyzer. There are several CDs and DVDs that contain subwoofer test signals. If you use an SPL meter, set the A800's LEVEL control so that the subwoofer plays at the same volume as the system's other speakers.

PHASE Control

The PHASE control can be adjusted from 0° to 180°. At the 0° setting, a positive input voltage will cause the subwoofer's speaker cone to move out (towards the room). When the PHASE control is at the 180° setting a positive input voltage will cause the subwoofer cone to move in (away from the room). This allows you to better match the timing of the woofer with the timing of your left and right speakers so that their signals all reach your ears properly aligned (in phase) with each other.

There is no absolute correct setting for the PHASE control. When the woofer is properly in phase with the left and right speakers the sound will be clearer and have maximum impact in the midbass range. This will make percussive sounds like drums, piano and plucked strings sound more life-like.

The best way to adjust the PHASE Control is to listen to music that you are familiar with and adjust the control so that drums and other percussive sounds have maximum impact.

FREQUENCY Control

The FREQUENCY control adjusts the amplifier's internal crossover between 50Hz and 250Hz. The crossover's slope is 12dB/octave. The higher you set the FREQUENCY control the higher in frequency the connected subwoofer will operate.



Use the FREQUENCY control to achieve a smooth transition of bass frequencies between the subwoofer and your main speakers. Generally, the frequency should be set at a lower value if your main speakers have larger woofers, and should be set at a higher value if your main speakers have smaller woofers.

When setting the FREQUENCY control by ear, listen for the smoothness of the bass. If the bass seems too strong at certain frequencies (especially if your main speakers have larger woofers), try lowering the FREQUENCY control setting; if the bass seems too weak at certain frequencies (especially if your main speakers have smaller woofers) try raising the FREQUENCY control setting.

Ideally, the FREQUENCY control should be set to the frequency where your main speakers' low-frequency response roll-off is -3dB. However, this is usually impossible to determine without sophisticated test equipment since each listening room has a different influence on your main speakers' bass performance.

Built-In Limiter

The A800 has a built-in limiter that prevents overdriving the amplifier. This allows the subwoofer to produce optimum bass output while maintaining long-term reliability. The limiter has no user or installer adjustments.

Specifications

A800

Amplifier Power:	150 watts
Controls:	Variable crossover frequency (50Hz ~ 250Hz), output level, phase control
Dimensions (W x H x D):	16¾" x 4" x 13½" (425mm x 102mm x 343mm)
Shipping Weight:	20 lbs (9.1kg)



Technical Assistance and Service

If you have any questions about the operation or installation of this product, please call our Technical Assistance Department on any business day at (800) 582-0772 or (949) 492-7777; from 7 a.m. to 5 p.m., PST.

If your product should need repair or service, contact your Sonance Authorized Dealer for help, or use the following procedure:

1. Prior to calling note the product's model number, serial number, purchase date, and the name and address of the dealer where you purchased the product.
2. Contact our Technical Assistance Department at the above number(s) and describe the problem the unit is experiencing. If applicable, they will issue a Return Authorization Number.

IMPORTANT: You must have prior authorization to return your amplifier to Sonance!

3. If you're directed to return the unit to Sonance for repair, pack the unit in its original shipping carton. If needed, you can obtain replacement packaging from us for a small charge. It is best if you place the box into an additional outer "overcarton" before shipment to minimize a chance of theft in shipment. Please include a copy of the original bill of sale inside the package.
4. Contact a package delivery service such as United Parcel Service or Federal Express to arrange prepaid (not collect) shipping. Do not use the U.S. Postal Service.

IMPORTANT: Freight collect shipments will be refused.

5. **Write the Return Authorization Number on the outside of the shipping carton.**

6. Ship the packaged unit to:

Quality Assurance Department
Sonance
212 Avenida Fabricante
San Clemente, CA 92672-7531



Limited Warranty Coverage (U.S. Only)

Sonance warrants to the original retail purchaser only that this Sonance product will be free from defects in materials and workmanship for a period of five (5) years, provided the product was purchased from a Sonance Authorized Dealer.

Defective products must be shipped, together with proof of purchase, prepaid insured to the Authorized Sonance Dealer from whom they were purchased, or to the Sonance factory at the address listed on this instruction manual. Freight collect shipments will be refused. It is preferable to ship this product in the original shipping container to lessen the chance of transit damage. In any case, the risk or loss or damage in transit is to be borne by the purchaser. If upon examination at the factory or Authorized Sonance Dealer it is determined that the unit was defective in materials or workmanship at any time during this warranty period, Sonance or the Authorized Sonance Dealer will, at its option, repair or replace this product at no additional charge, except as set forth below. If this model is no longer available and cannot be repaired effectively, Sonance, at its sole option, may replace the unit with a current model of equal or greater value. In some cases where a new model is substituted, a modification to the mounting surface may be required. If mounting surface modification is required, Sonance assumes no responsibility or liability for such modification. All replaced parts and product become the property of Sonance. Products replaced or repaired under this warranty will be returned to the original retail purchaser, within a reasonable time, freight prepaid.

This Warranty does not include service or parts to repair damage caused by accident, disaster, misuse, abuse, negligence, inadequate packing or shipping procedures, commercial use, voltage inputs in excess of the rated maximum of the unit, or service, repair or modification of the product which has not been authorized or approved by Sonance. This Warranty also excludes normal cosmetic deterioration caused by environmental conditions. This Warranty will be void if the Serial Number on the product has been removed, tampered-with or defaced. This Warranty is in lieu of all other expressed warranties. If the product is defective in materials or workmanship as warranted above, the purchaser's sole remedy shall be repair or replacement as provided above. In no event will Sonance be liable for any incidental or consequential damages arising out of the use or inability to use the product, even if Sonance or an Authorized Sonance Dealer has been advised of the possibility of such damages, or for any claim by any other party.

Some states do not allow the exclusion or limitation of consequential damages, so the above limitation and exclusion may not apply. All implied warranties on the product are limited to the duration of this expressed Warranty. Some states do not allow limitation on the length of an implied warranty. If the original retail purchaser resides in such a state, this limitation does not apply.

Exclusions and Limitations

The warranty set forth above is in lieu of all other warranties, express or implied, of merchantability, fitness for a particular purpose, or otherwise. The warranty is limited to Sonance products registered herein and specifically excludes any damage to loudspeakers and other allied or associated equipment which may result for any reason from use with this product. Sonance shall, in no event, be liable for incidental or consequential damages arising from any breach of this warranty or otherwise. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

SONAMP® A800 SUBWOOFER AMPLIFIER



System Notes:



SONANCE®

©2007 Sonance. All rights reserved. Sonance and Sonamp are trademarks or registered trademarks of Dana Innovations.

Due to continuous product improvement, all features and specifications are subject to change without notice.

For the latest Sonance product specification information visit our website: www.sonance.com

SONANCE • 212 Avenida Fabricante • San Clemente, CA 92672-7531 USA • (800) 582-7777 or (949) 492-7777

FAX: (949) 361-5151 • Technical Support: (800) 582-0772

www.sonance.com