



The Leader in Architectural Audio™

PN. 33-2293

INSTALLATION INSTRUCTIONS

SONANCE SON OF SUB SUBWOOFER

INTRODUCTION

Thank you for purchasing the Sonance Son of SUB subwoofer. When properly installed, this product will provide you with years of entertainment pleasure.

To obtain the full potential of your new subwoofer, please read all instructions before starting the installation. If you do not have the necessary skills to install the subwoofer yourself, contact your authorized Sonance dealer for installation options.



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.

IMPORTANT SAFETY INSTRUCTIONS

When using your Son of SUB subwoofer, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. Read and understand all instructions.
2. Retain the safety and installation 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 this product in a high humidity environment or near water, for example a wet basement, wet bar, or swimming pool.
6. Never touch the drivers or push objects of any kind into this product through the grilles.
7. Always provide adequate ventilation for the Son of SUB subwoofer amplifier. Allow a minimum of one inch above and three inches behind the amplifier. Do not block cooling vents on the amplifier case.
8. The amplifier should be situated away from heat sources such as heat registers, radiators, stoves, or other appliances that produce heat.
9. The amplifier should only be connected to a power supply of the type marked on the back panel. The power supply cord should be routed to avoid damage from contact with sharp objects or being stepped on.
10. Unplug the amplifier during thunderstorms or when the system will be unused for extended periods.
11. Exercise care to avoid spilling liquids on or in the amplifier or speakers.
12. 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 and damage to the amplifier.
13. The Son of SUB subwoofer amplifier shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the Son of SUB amplifier.
14. Cleaning - The appliance should be cleaned only as recommended by the manufacturer.
15. Non-Use Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
16. Damage requiring service - The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged
 - B. Objects have fallen, or liquids have been spilled into the appliance
 - C. The appliance has been exposed to rain
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance
 - E. The appliance has been dropped or appears to have been damaged
17. Servicing - The user should not attempt to service the appliance beyond that described in the installation instructions. All other servicing should be referred to qualified service personnel.
18. Storms - To prevent damage to components, unplug all electronic equipment during thunderstorms.



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

WARNING: TO PREVENT FIRE OR SHOCK HAZARD DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE



Australian and New Zealand Users:

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to the Australian/New Zealand standard AS/NZS 3548 set out by the Spectrum Management Agency.

Caution! Disconnect power before servicing.



European Users:

This equipment has been tested and found to comply with the following European directive:

- (i) EMC Directive 89/336/EEC amending directive 92/31/EEC 93/68 EEC as per EN 50081-1: 1992 according to EN55013: 1990 Class B EN50082-1: 1997 according to EN61000-4-2: 1995 EN61000-4-3: 1997 EN61000-4-4: 1995
- (ii) Low Voltage Directive (Safety) 72/23/EEC as per EN60065: 1993

CONNECTING THE SON OF SUB

Power switch

The power switch turns the Son of SUB subwoofer on and off.

Power connection

The Son of SUB is supplied with a 14 gauge EIA standard 120 volt grounded power cable.

Voltage Switch

This switch is set in the 120 volt position from the factory. This is the correct setting for use in the United States.

If you are using this subwoofer in a country where the voltage is between 220 and 240 volts this switch should be changed to the 230 volt setting. If you are using the amplifier in its 230 volt setting, the fuse located above the power connector must be changed.

IMPORTANT: Included with the amplifier is a 1 amp fuse for this purpose. Before making any changes to the voltage setting or the fuse, make sure the amplifier is unplugged from its power source.

Audio input options

There are two ways to get your audio signal into the Son of SUB subwoofer; line level and speaker level. Under no circumstances should you try to use both at the same time. Turn off all equipment before connecting the Son of SUB subwoofer to your system.

Line level input

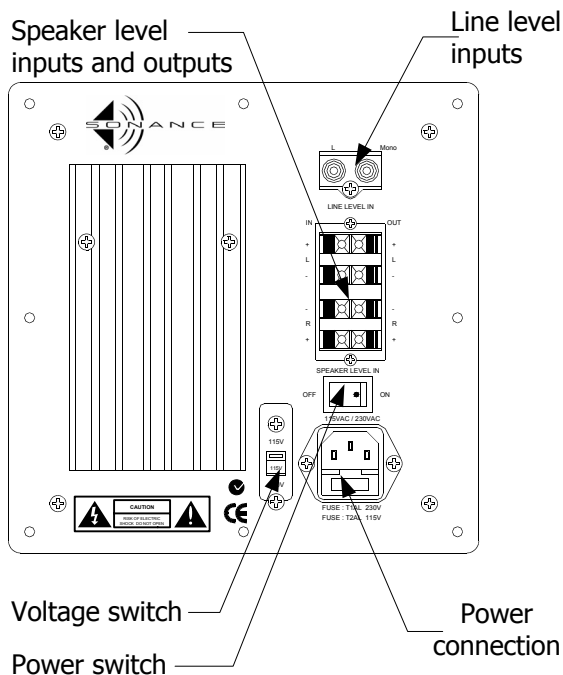
The Son of SUB subwoofer features a line level input. Use this connection if your receiver or preamp has a line level subwoofer output. If your subwoofer output from your receiver or preamp is mono, use the input marked right / mono on the Son of SUB subwoofer.

Speaker level input

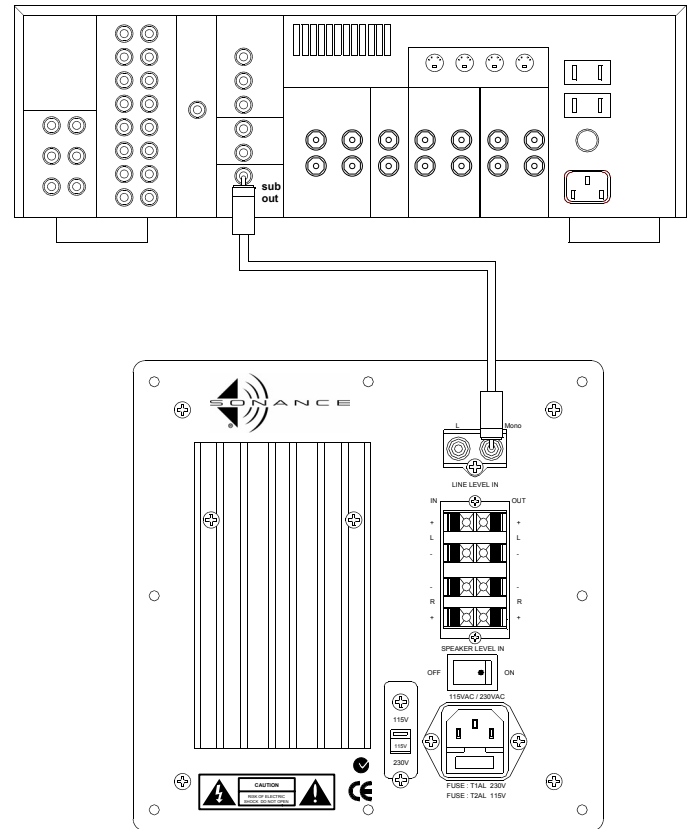
If you are using a receiver as the source in your system, this will be the input you will probably use. When using this input, connect the speaker output from your receiver to the speaker level input on the Son of SUB subwoofer. Then connect the wires from your left and right main speakers to the speaker level output of the Son of SUB subwoofer.

Auto on circuit

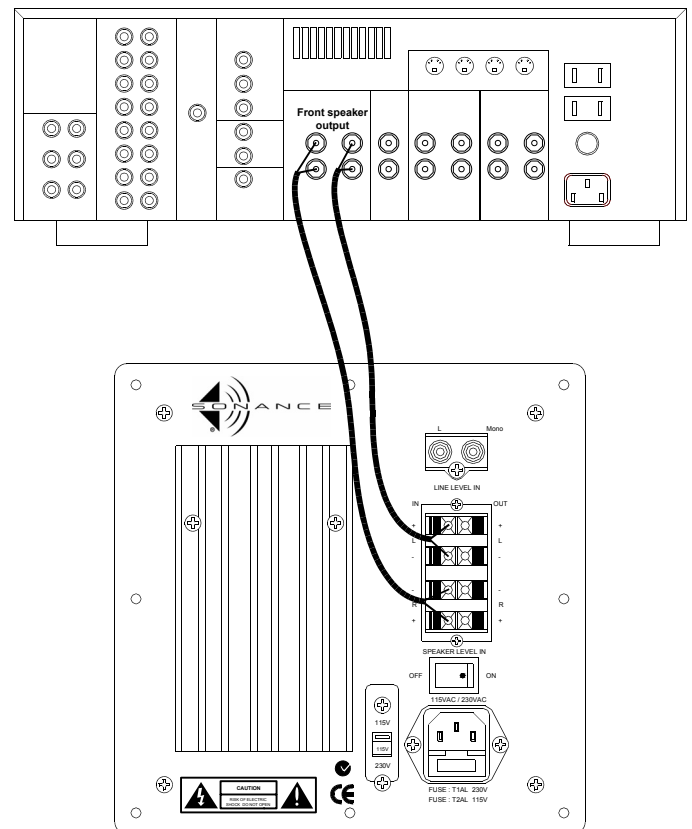
Power is always supplied to the Son of SUB subwoofer. The amplifier inside the Son of SUB will remain on for approximately 15 minutes after a signal is detected. After 15 minutes, the subwoofer will switch to the standby mode until a signal is detected.



Typical line level connection



Typical speaker level connection

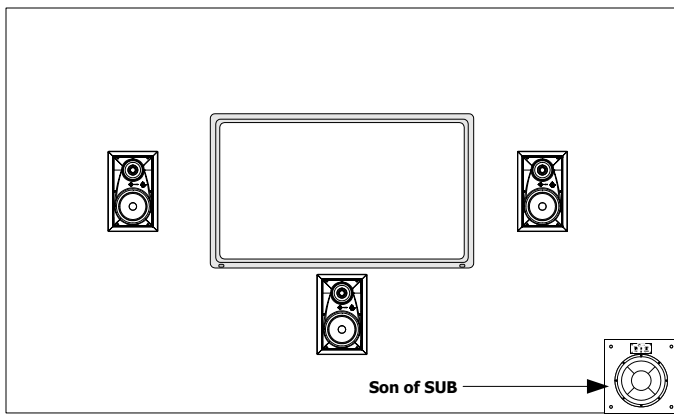


SUBWOOFER PLACEMENT

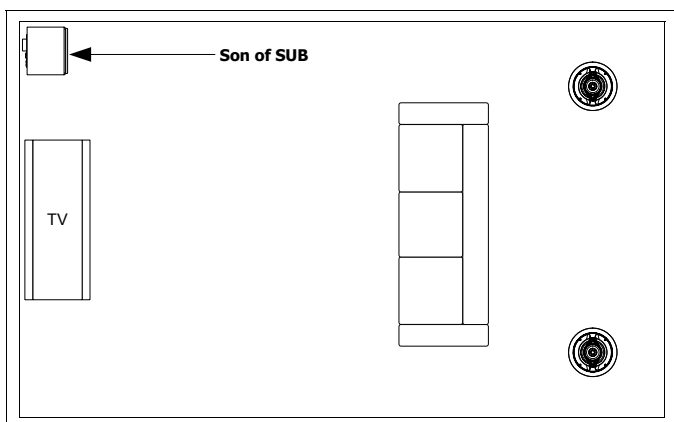
The most predictable performance will be obtained by placing the Son of SUB subwoofer in the front corner of the room as shown in the illustration below. Keep the woofer in the same general area as the left, center and right speakers to assure seamless integration of the sound from the main speaker and the woofer.

In a two channel system the woofer should be located in a corner of the room and as close as possible to the left or right speaker. Corner placement of the woofer will provide more predictable performance and higher output level.

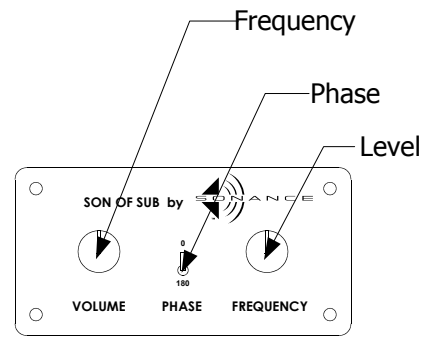
Important: Do not place the subwoofer where the heat sink on the back of the woofer may come in contact with curtains or furniture !



Home theater placement front view



Home theater placement top view



SETTING THE SUBWOOFER CONTROLS

The controls for volume, frequency and phase are located behind the grille on the front of the Son of SUB subwoofer. You will need to remove the grille to access these controls.

Frequency

Use this control to adjust the frequency you would like the Son of SUB subwoofer to extend up to. If you are using the Son of SUB in a surround system and the receiver or processor has a built in crossover you should set the Son of SUB subwoofer at its maximum which is 250hz.

The best way to adjust this control is to put on some music or pink noise and adjust the control till the system sounds good to you.

Phase

The phase control can be set at 0 or 180 degrees. A simple explanation of this control would be that at the 0 setting when a positive signal is sent to the woofer, the woofer cone will move out. When the control is set to 180 degrees a positive signal will make the woofer driver move in. This control will allow you to better integrate the Son of SUB subwoofer and your main speakers.

The best way to adjust this control is to put on some music or pink noise and select the setting that provides fuller bass.

Volume

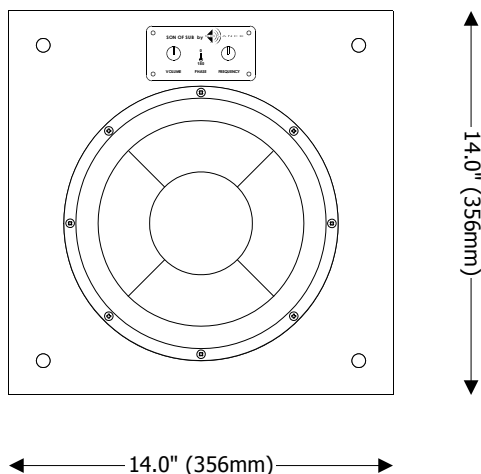
The level control adjusts the output level of the Son of SUB subwoofer. Use the built in generator in your receiver or processor and a sound pressure level meter to calibrate your system accurately. If your equipment does not have a built in generator you can adjust the level by ear. Listen to music you are familiar with and set the level to your taste.

SPECIFICATIONS

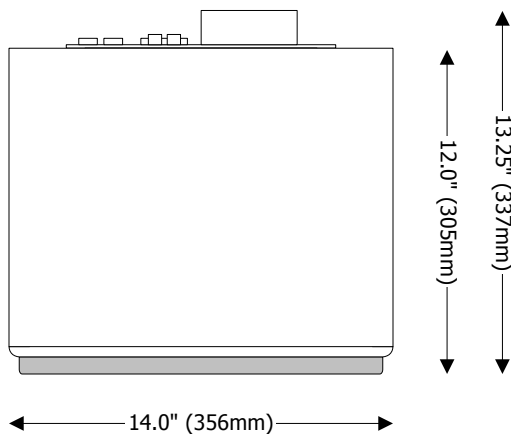
Son of SUB

Speaker Design	Acoustic suspension
Woofer	10" (254 mm) Paper cone, rubber surround, shielded magnet system, and a vented pole piece
Frequency Response	37 Hz to 250 kHz +/- 3dB
Crossover	Variable from 50 to 250 Hz
Amplifier Power	75 watts continuous @ .5% THD
Maximum output	105 dB at 1 meter
Speaker Dimensions	14" (356mm) H x 14" (356mm) W x 13 1/4" (337mm) D
Weight	50.0 lbs (22.63 kg)

Front View



Top View



TECHNICAL ASSISTANCE AND SERVICE

The Technical Assistance Department at Sonance is available at (800) 582-0772 or (949) 492-7777 to answer any questions concerning the operation and installation of your speaker between the hours of 7:00 AM and 5:00 PM Pacific time, Monday through Friday, except holidays.

In the event your unit should need repair or service, you may return the unit to your authorized dealer or use the following guidelines:

1. Be prepared to state the model number and / or serial number, date of purchase and dealer's name and address when calling.
2. Contact Sonance directly at (800) 582-0772 or (949) 492-7777 or at www.sonance.com
3. If you are returning the product directly to Sonance, call us to obtain a return authorization number before shipping. **YOU MUST HAVE PRIOR AUTHORIZATION TO RETURN YOUR UNIT.**
4. The original packaging must be used. If the original packaging is unavailable replacements can be obtained from Sonance for a small fee.
5. Ship the product via United Parcel Service, Federal Express, or RPS. Please do not use the U.S. Mail service.
6. Write the return authorization number on the outside of the box.
7. Ship to:
 - Attn: Quality Assurance Department
 - Sonance
 - 212 Avenida Fabricante
 - San Clemente, CA 92672-7531

8. **FREIGHT COLLECT SHIPMENTS WILL BE REFUSED !**

WARRANTY COVERAGE SPEAKER (U.S. ONLY)

If, within five (5) years from the date shown on the bill of sale, the unit fails due to a defect in workmanship or material, Sonance will, at its option and at no charge, repair or replace the components of such unit which prove to be defective. For this warranty to be effective, the bill of sale must show that the unit was purchased from an "Authorized Sonance Dealer". This warranty shall apply exclusively to the original purchaser and shall not apply to units purchased for industrial or commercial use.

Furthermore, this warranty shall not apply if:

1. Damage to the unit was caused by accident, abuse or misuse;
2. The unit was opened, modified, or repaired by unauthorized personnel.
3. The unit was not used as outlined in the operating instructions.

WARRANTY COVERAGE AMPLIFIER (U.S. ONLY)

If, within one (1) year from the date shown on the bill of sale, the unit fails due to a defect in workmanship or material, Sonance will, at its option and at no charge, repair or replace the components of such unit which prove to be defective. For this warranty to be effective, the bill of sale must show that the unit was purchased from an "Authorized Sonance Dealer". This warranty shall apply exclusively to the original purchaser and shall not apply to units purchased for industrial or commercial use.

Furthermore, this warranty shall not apply if:

1. Damage to the unit was caused by accident, abuse or misuse;
2. The unit was opened, modified, or repaired by unauthorized personnel.
3. The unit was not used as outlined in the operating instructions.

EXCLUSIONS AND LIMITATIONS

The warranty set forth above is in lieu of all other warranties, expressed 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 rights which vary from state to state.