

INSTRUCTION MANUAL

SONANCE CINEMA® SUB

ACOUSTIC ENCLOSURE



Introduction

Thank you for purchasing a Sonance Cinema® Series SUB 10-250 or SUB 12-500 Acoustic Enclosure. When properly installed, these subwoofers will deliver film soundtracks and music with outstanding clarity and realism, even in large home theater rooms. This manual covers the Sonance Cinema SUB 10-250 and 12-500 models.

Box Contents SUB 10-250

SUB 10-250 Acoustic Enclosure box contains the following:

- (1) SUB 10-250 Acoustic Enclosure with integral mounting rails
- (1) Coverplate
- (8) Flat Head Phillips screws for mounting the enclosure

Box Contents SUB 12-500

SUB 12-500 Acoustic Enclosure box contains the following:

- (1) SUB 12-500 Acoustic Enclosure with integral mounting rails
- (1) Coverplate
- (12) Flat Head Phillips screws for mounting the enclosure

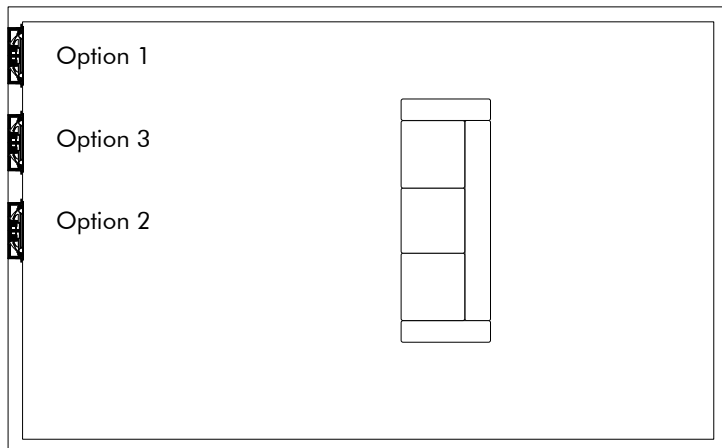
Subwoofer Placement

Subwoofer placement is a very complicated subject. The ultimate performance of a subwoofer is very room and placement dependent.

With in room subwoofers the location can be adjusted for best performance. With an in-wall subwoofer the location is permanent and must be decided during construction. With this in mind the placement suggestions in this manual have the highest probability for success in most rooms.

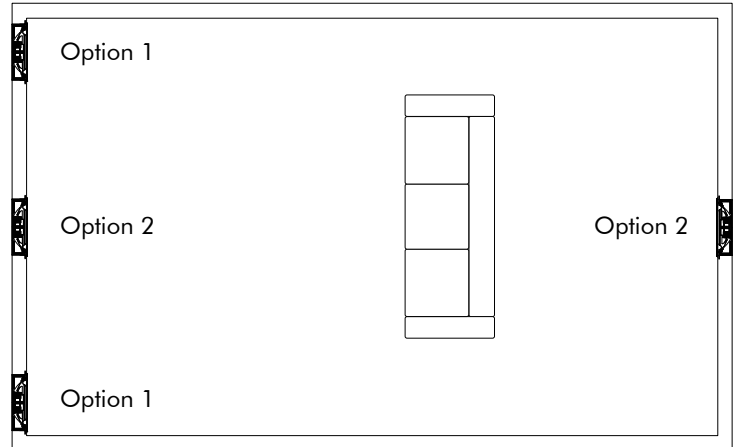
One Woofer Placement

In installations with one woofer the best location will be in the right or left front corner of the room. The second option would be on the front wall in the center of the room. The third option would be between the corner and the center at the $\frac{1}{4}$ position.



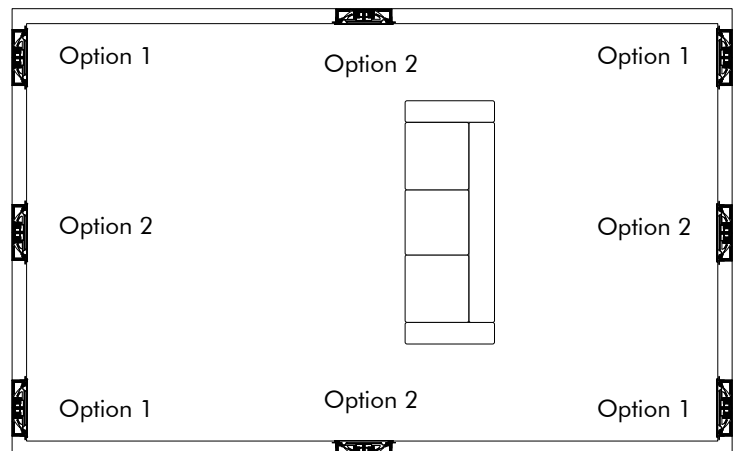
Two Woofer Placement

In installations with two woofers the best locations will be in the left and right front corners of the room. The second option would be in the center of the front and rear walls.



Four Woofer Placement

In installations with four woofers the best locations for the four woofers will be in each of the four corners of the room. The second option would be to put one woofer on each wall in the center.



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Wire Gauge and Quality

The total wire resistance should be less than 10% of the speaker impedance. The Cinema SUB 10-250 and SUB 12-500 are 8 ohm drivers so the total wire resistance should be no more than 0.8 ohms.

In simple terms, the extra resistance from the wire will have a very negative effect on the sound quality of the subwoofer. The sound can be less dynamic and definition of bass frequencies can be reduced. Amplifier power is also wasted in the wire, reducing the maximum output level of the system.

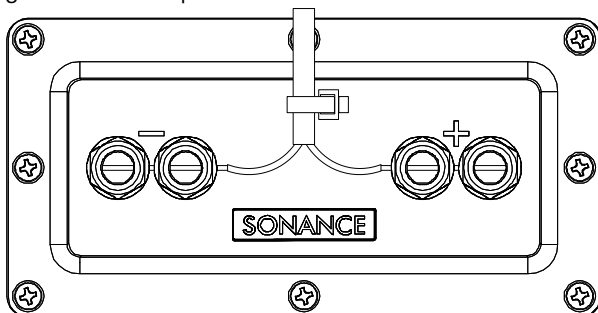
Wire resistance in Ohms vs. length of cable run						
Distance in Feet	50'	100'	150'	200'	250'	300'
20 gauge	1.04	2.07	3.11	4.14	5.18	6.22
18 gauge	.65	1.30	1.96	2.61	3.26	3.91
16 gauge	.41	.82	1.22	1.63	2.04	2.45
14 gauge	.26	.52	.77	1.03	1.29	1.55
12 gauge	.16	.32	.49	.65	.81	.97
10 gauge	.10	.20	.31	.41	.51	.61

Connecting the Wire

The SUB 10-250 and 12-500 enclosures feature a unique terminal system.

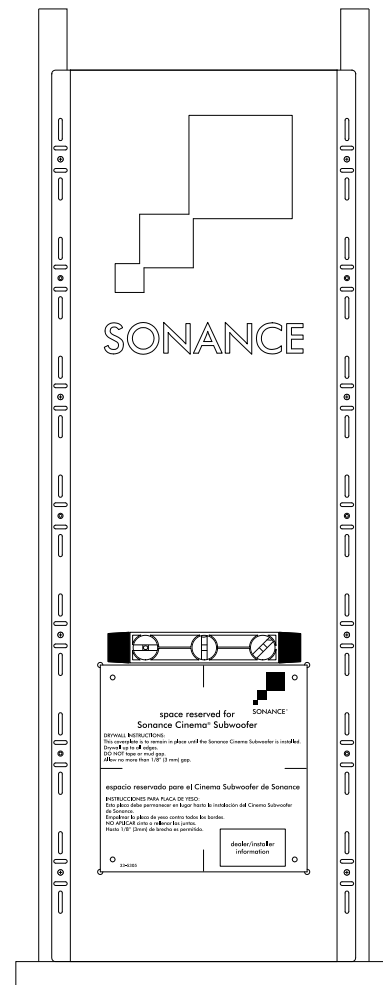
As you can see in the illustration below the binding posts are turned to allow the wire to be run through both binding posts. This is done to increase contact area and provide the most secure and long lasting connection possible.

1. Loosens all four binding posts to allow the wire to be pushed through.
2. Strip off approximately 1-1/4" (32mm) of jacket from the wires.
3. Run the wire through the appropriate terminals.
4. Tighten the binding posts.
5. Tighten the tie wrap around the wires.



Installing the Enclosure

1. Determine the proper location for the subwoofer enclosure using the suggestions on the page 1.
2. Determine the correct height to mount the enclosure. Allow at least 1" (25mm) around the perimeter of the coverplate for clearance of the grille frame and grille.
3. Verify the enclosure is level using a bubble level. The grille has a limited range of adjustment, ensuring the enclosure is level will greatly simplify the completion of the installation.
4. Attach the box to the stud or joist bay using the supplied wood screws. Use 4 screws per side on the SUB 10-250 and 6 screws per side on the SUB 12-500.
5. Drywall should be installed up too the edges of the coverplate. Do not leave more than a 1/8" (3mm) gap around the perimeter of the coverplate.

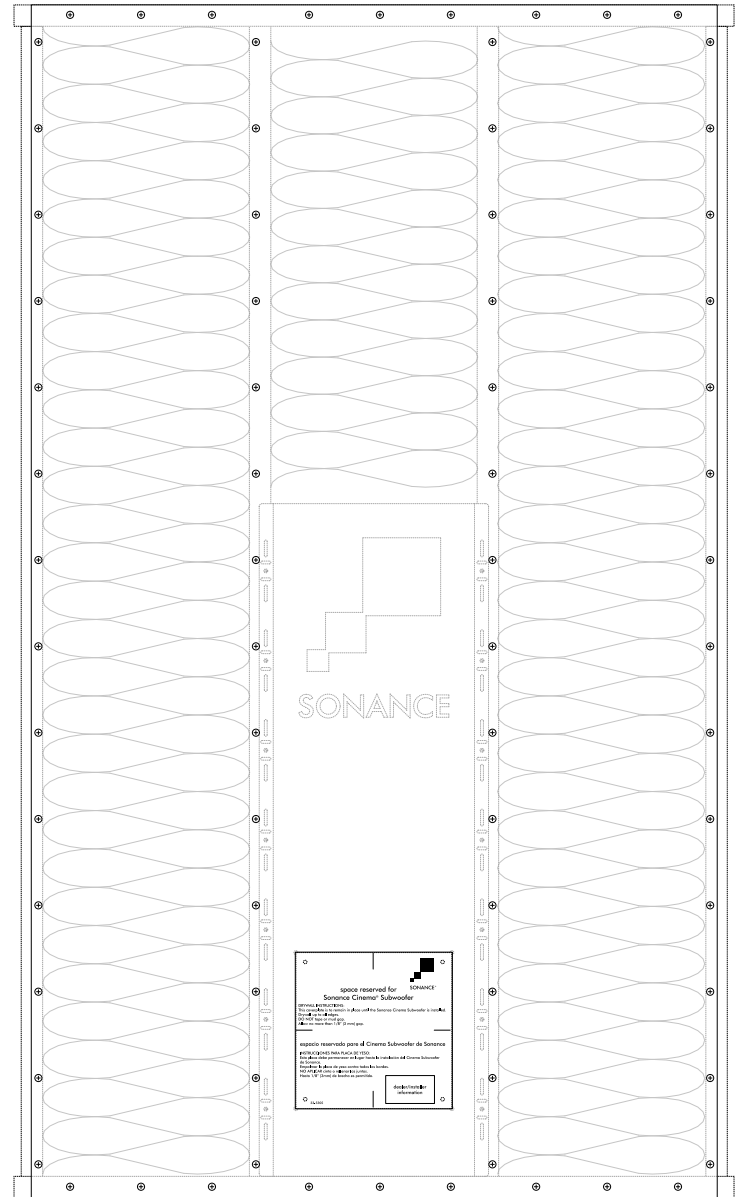
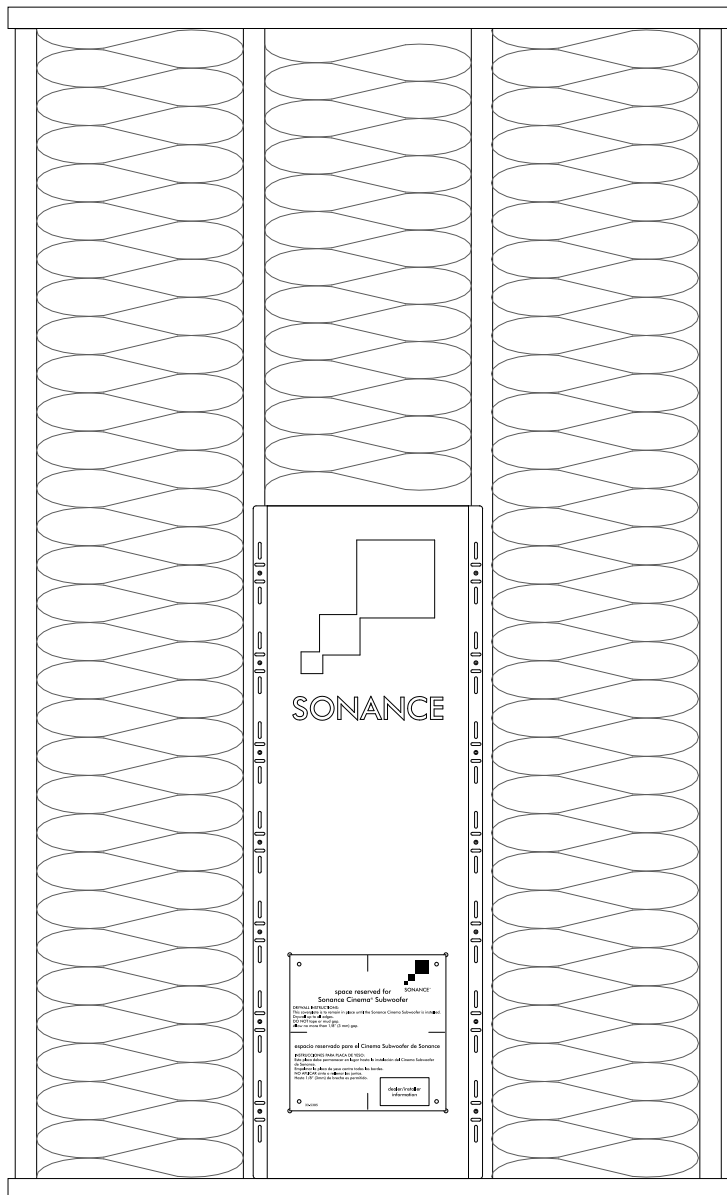
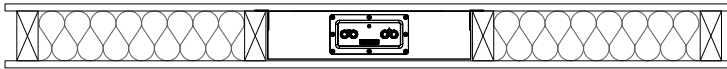


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Insulating the Wall Cavity

Subwoofer performance can be enhanced by insulating the cavities above and adjacent to the enclosure with fiberglass insulation.

This added fiberglass will minimize any noise that could be caused by the unsupported drywall resonating.



Drywall and Screw Installation

To maximize performance and minimize noise and vibration it is strongly recommended that one complete piece of drywall be installed over the subwoofer location as shown above.

Drywall screws should be installed at a spacing of 8"-10" (203-254mm). If drywall is installed on the wall surface behind the subwoofer enclosure drywall screws should also be installed following these instructions as well.

IMPORTANT: DO NOT INSTALL DRYWALL SCREWS INTO THE ENCLOSURE. THE ENCLOSURE IS DESIGNED TO FLOAT INSIDE THE WALL.

LIMITED FIVE (5) YEAR WARRANTY

Sonance warrants to the first end-user purchaser that this Sonance-brand product ("Product"), when purchased from an authorized Sonance Dealer/Distributor, will be free from defective workmanship and materials for the period stated below. Sonance will at its option and expense during the warranty period, either repair the defect or replace the Product with a new or remanufactured Product or a reasonable equivalent.

EXCLUSIONS

TO THE EXTENT PERMITTED BY LAW, THE WARRANTY SET FORTH ABOVE IS IN LIEU OF, AND EXCLUSIVE OF, ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IS THE SOLE AND EXCLUSIVE WARRANTY PROVIDED BY SONANCE. ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY, IMPLIED WARRANTY OF FITNESS FOR USE, AND IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED. No one is authorized to make or modify any warranties on behalf of Sonance.

The warranty stated above is the sole and exclusive remedy and Sonance's performance shall constitute full and final satisfaction of all obligations, liabilities and claims with respect to the Product. IN ANY EVENT, SONANCE SHALL NOT BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, ECONOMIC, PROPERTY, BODILY INJURY, OR PERSONAL INJURY DAMAGES ARISING FROM THE PRODUCT, ANY BREACH OF THIS WARRANTY OR OTHERWISE.

This warranty statement gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow the exclusion of implied warranties or limitations of remedies, so the above exclusions and limitations may not apply. If your state does not allow disclaimer of implied warranties, the duration of such implied warranties is limited to period of Sonance's express warranty.

Your Product Model and Description: Sonance Cinema Series SUB 10-250 Acoustic Enclosure and SUB 12-500 Acoustic Enclosure

Warranty Period for this Product: Five (5) years from the date on the original sales receipt or invoice or other satisfactory proof of purchase.

Additional Limitations and Exclusions from Warranty Coverage: The warranty described above is non-transferable, applies only to the initial installation of the Product, does not include installation of any repaired or replaced Product, does not include damage to allied or associated equipment which may result for any reason from use with this Product, and does not include labor or parts caused by accident, disaster, negligence, improper installation, misuse (e.g. overdriving the amplifier or speaker, excessive heat or cold or humidity), or from service or repair which has not been authorized by Sonance.

Obtaining Authorized Service: To qualify for the warranty, you must contact your authorized Sonance Dealer/Installer or call Sonance Customer Service at (800) 582-0772 within the warranty period, must obtain a return merchandise number (RMA), and must deliver the Product to Sonance shipping prepaid during the warranty period, together with the original sales receipt, or invoice or other satisfactory proof of purchase.



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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

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