

SONANCE

CABINET SUBWOOFER **INSTRUCTION MANUAL**

MS10SUB

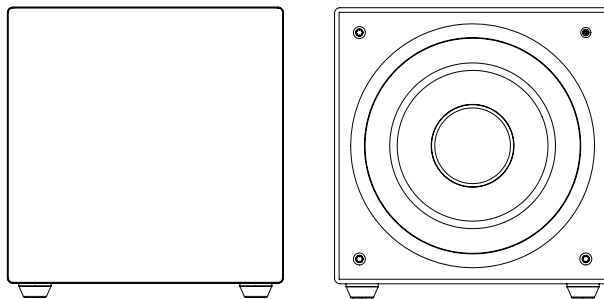


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IMPORTANT SAFETY INFORMATION

IMPORTANT: READ ALL OF THESE INSTRUCTIONS BEFORE YOU INSTALL OR OPERATE YOUR SUBWOOFER AND SAVE THESE INSTRUCTIONS FOR LATER USE.

- 1. Read Instructions** — All these safety and operating instructions should be read before you operate the unit.
 - 2. Retain Instructions** — These safety and operating instructions should be retained for future reference.
 - 3. Heed Warnings** — All warnings on the unit and in the operating instructions should be adhered to.
 - 4. Follow Instructions** — All operating and use instructions should be followed.
 - 5. Water and Moisture** — The unit should not be used near water — for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, etc.
 - 6. Carts and Stands** — The unit should be used only with a cart or stand that is recommended by the manufacturer. A unit and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit and cart combination to overturn.
- 
- 7. CAUTION: To prevent electric shock, do not use the subwoofer's polarized plug with an extension cord, receptacle, or other outlets unless the blades can be fully inserted to prevent blade exposure.**
 - 8. Ventilation** — The unit should be situated so that its location or position does not interfere with its proper ventilation. For example, the unit should not be placed in a built-in installation, such as a bookcase or cabinet, that may impede the flow of air over the back plate.
 - 9. Heat** — The unit should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including other audio components) that produce heat.



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.



In accordance with the European Union WEEE (Waste Electrical and Electronic Equipment) directive effective August 13, 2005, we would like to notify you that this product may contain regulated materials which upon disposal, according to the WEEE directive, require special reuse and recycling processing. For this reason Sonance has arranged with our distributors in European Union member nations to collect and recycle this product at no cost to you. To find your local distributor please contact the dealer from whom you purchased this product. Please note, only this product itself falls under the WEEE directive. When disposing of packaging and other related shipping materials we encourage you to recycle these items through the normal channels.



**SONANCE
SUBWOOFERS**

Tested to comply
with FCC Standards for
home or office use only.

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
- (2) This device must accept any interference received, including interference that may cause undesired operation.

- 10. Power Sources** — The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit.
- 11. Accessories and Attachments** — Only use accessories and attachments specified by the manufacturer.
- 12. Grounding or Polarization** — Precautions should be taken so that the grounding or polarization means of the unit is not defeated.
- 13. Power Cord Protection** — Power cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the controller.
- 14. Cleaning** — The unit should be cleaned only as recommended by the manufacturer.
- 15. Non-Use Periods** — The power cord of the unit should be unplugged from the outlet when left unused for a long period of time.
- 16. Object and Liquid Entry** — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- 17. Damage Requiring Service** — The unit should be serviced by qualified service personnel when:
 - The power cord or the plug has been damaged.
 - Objects have fallen or liquid has been spilled into the unit.
 - The unit has been exposed to rain.
 - The unit does not appear to operate normally or exhibits a marked change in performance.
 - The unit has been dropped or the enclosure damaged.
- 18. Servicing** — The user should not attempt to service the unit beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

CONSIGNES DE SÉCURITÉ IMPORTANTES

1. Lisez ces instructions.
2. Conservez ces instructions.
3. Tenez compte de tous les avertissements.
4. Suivez toutes les instructions.
5. N'utilisez pas cet appareil près de l'eau.
6. Nettoyez uniquement avec un chiffon sec.
7. Ne bloquez pas les ouvertures de ventilation. Installez conformément aux instructions du fabricant.
8. N'installez pas l'appareil à proximité de sources de chaleur telles que des radiateurs, des bouches de chaleur, des poêles ou tout autre appareil (y compris les amplificateurs) produisant de la chaleur.
9. Ne pas mettre en échec l'objectif de sécurité de la fiche polarisée ou de mise à la terre. Une fiche polarisée possède deux lames dont l'une est plus large que l'autre. Une fiche de type mise à la terre comporte deux lames et une troisième broche de mise à la terre. La lame large ou la troisième broche sont fournies pour votre sécurité. Si la fiche fournie ne rentre pas dans votre prise, consultez un électricien pour le remplacement de la prise obsolète.
10. Protégez le cordon d'alimentation de tout piétinement ou pincement, en particulier au niveau des prises, des prises de courant et du point de sortie de l'appareil.
11. N'utilisez que des accessoires / accessoires spécifiés par le fabricant.
12. Utilisez uniquement le chariot, le support, le trépied, le support ou la table spécifié par le fabricant ou vendu avec l'appareil. Lorsqu'un chariot est utilisé, soyez prudent lorsque vous déplacez la combinaison chariot / appareil pour éviter les blessures causées par un renversement.



En vertu de la directive WEEE de l'Union européenne (directive sur les déchets électriques et électroniques) entrée en vigueur le 13 août 2005, nous vous avisons que ce produit pourrait renfermer des matériaux réglementés dont l'élimination doit faire l'objet de procédures de réutilisation et de recyclage particulières.

À cette fin, Sonance a demandé à ses distributeurs dans les pays membres de l'Union européenne de reprendre et recycler ce produit gratuitement. Pour trouver le distributeur le plus près, veuillez communiquer avec le revendeur auprès de qui vous avez acheté ce produit.

Veuillez noter que seul le produit est régi par la directive WEEE. Nous vous encourageons à recycler les matériaux d'emballage et autres matériaux d'expédition selon les procédures normales.



SONANCE SUBWOOFERS

Testé pour être conforme aux normes du FCC
POUR UNE UTILISATION À LA MAISON OU AU BUREAU

13. Débranchez cet appareil pendant les orages ou lorsqu'il n'est pas utilisé pendant de longues périodes.
14. Confiez toute réparation à un technicien qualifié. L'entretien est nécessaire lorsque l'appareil a été endommagé de quelque façon que ce soit, par exemple un cordon d'alimentation ou une prise endommagée, du liquide a été renversé ou des objets sont tombés dans l'appareil, l'appareil a été exposé à la pluie ou à l'humidité ou a été abandonné.
15. L'appareil ne doit pas être exposé à des gouttes ou à des éclaboussures et les objets remplis de liquides, tels que des vases, ne doivent pas être placés sur l'appareil.
16. Maintenir une distance minimale de 20 à 30 cm autour de l'appareil pour une ventilation suffisante.
17. La ventilation ne devrait pas être gênée en couvrant les ouvertures de ventilation avec des articles tels que des journaux, des nappes, des rideaux, etc.
18. Aucune source de flamme nue, telle que des bougies, ne doit être placée sur l'appareil.
19. L'utilisation d'appareils dans les climats tropicaux.
20. Cet appareil est un appareil électrique de classe II ou à double isolation.
21. La fiche secteur ou un coupleur d'appareil est utilisé comme dispositif de déconnexion, le dispositif de déconnexion doit rester facilement accessible.



Le point d'exclamation dans un triangle équilatéral est destiné à alerter l'utilisateur de la présence d'instruction importantes d'utilisation et de maintenance (entretien) dans la documentation accompagnant l'appareil.



Le symbole représentant un éclair dans le triangle équilatéral est destiné à alerter l'utilisateur de la présence d'une «tension dangereuse» non isolée à l'intérieur de l'enceinte du produit, qui peut être suffisamment importante pour constituer un risque d'électrocution.

Cet appareil est conforme à la partie 15 des règles du FCC. L'utilisation est assujettie aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence nuisible, et (2) cet appareil doit accepter l'interférence reçue, notamment l'interférence qui peut causer un mauvais fonctionnement.

REMARQUE : cet équipement a été testé et jugé conforme aux limites d'un appareil numérique de Classe B, en vertu de la Section 15 du règlement de la FCC. Ces limites sont conçues pour offrir une protection jugée raisonnable contre l'interférence nuisible dans une installation résidentielle. Cet équipement génère des utilisations et peut émettre une énergie radiofréquence et, s'il n'est pas installé et utilisé conformément aux instructions, peut causer une interférence nuisible aux radiocommunications. Toutefois, il n'existe aucune garantie qu'une interférence ne se produira pas dans une installation particulière. Si cet équipement cause une interférence nuisible à la réception radiophonique ou télévisuelle, qu'on peut déterminer en ouvrant et en fermant l'équipement, l'utilisateur est invité à essayer de corriger l'interférence à l'aide d'une des mesures suivantes

- Réorienter l'antenne de réception ou la changer de place.
- Augmenter la distance entre l'équipement et le récepteur.
- Raccorder l'équipement à une prise située sur un autre circuit que celui sur lequel le récepteur est raccordé.
- Consulter le revendeur ou un technicien radio/TV compétent pour obtenir de l'aide.

Design and Features

Your new Sonance Cabinet Subwoofer delivers powerful, low-distortion bass, and easily fits into your room's décor.

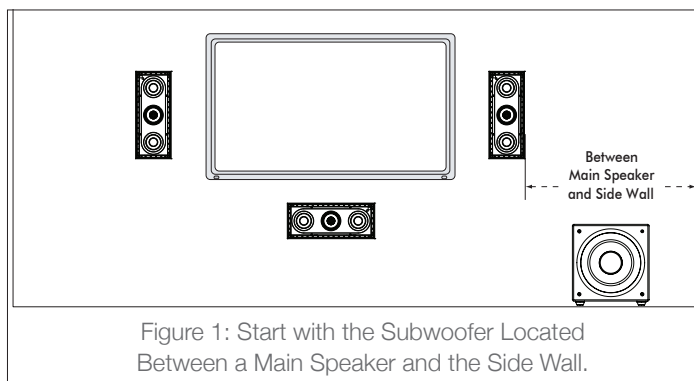
- Textured Black Finish with Black Cloth Grille
for Elegant and Minimalistic Aesthetic
- Made for Music and Movies
- Ultra Long Throw, Polypropylene Cone

Box Contents

- (1) Sonance Cabinet Subwoofer
- (4) Removable Rubber Feet
- (1) IEC Power Cord

Subwoofer Placement

Since your ears do not hear directional sound at deep bass frequencies, your subwoofer's placement is not as critical to its overall performance as is the placement of your system's other speakers. The following guidelines — plus some experimentation — will help you get the best performance possible from your subwoofer in your listening environment. We suggest starting with the subwoofer in line with your left and right speakers, somewhere between either speaker and the side wall (see Figure 1).



Your subwoofer's location relative to walls will influence the amount of bass it produces. Placing the subwoofer next to a wall will increase bass output; placing it in a corner will maximize its bass output. However, corner placement can increase standing waves in the room (peaks and dips in bass response related to the room's dimensions) that can make the subwoofer's bass performance sound uneven at different listening locations. Experiment with different subwoofer locations until you find one that produces strong bass that sounds clear (without boominess) at the seating locations while maintaining the sound's impact.

Your local authorized Sonance dealer is an expert in audio/video system planning and installation. We strongly recommend that you work with your dealer to ensure that you get the best performance possible from your subwoofer.

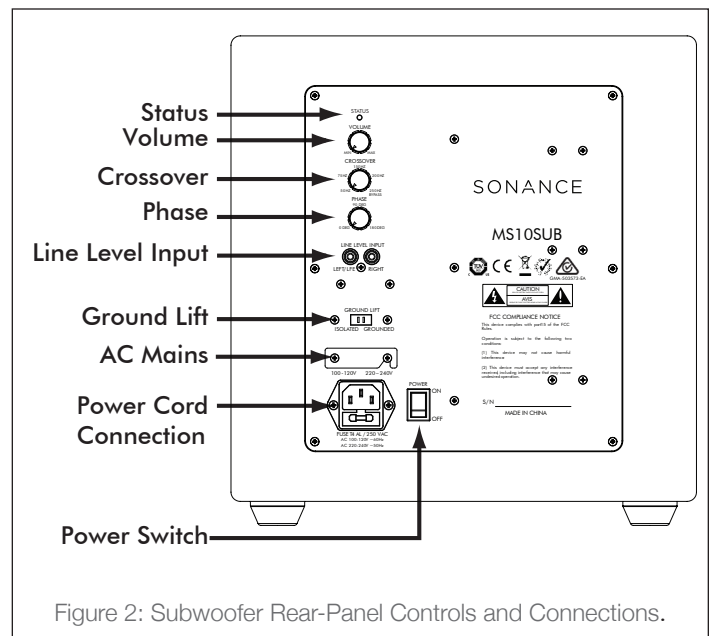
NOTE: SONANCE SUBWOOFERS CAN PRODUCE ENOUGH BASS ENERGY TO CAUSE OBJECTS IN THE ROOM TO RATTLE OR BUZZ DURING PASSAGES WITH VERY STRONG BASS. IF THIS HAPPENS, TRY RELOCATING THE ITEMS. IF THAT FAILS TO STOP THE RATTLING YOU MAY HAVE TO REMOVE OR SECURE THE ITEMS.

Installing the Subwoofer Flush to a Wall or Cabinet

To allow for proper ventilation when installing the cabinet subwoofer this way, leave at least 1" of clearance around the top and sides of the subwoofer and 1" of clearance behind it. If it is not possible to provide the necessary clearance, install a fan that will bring cooling air into the rear of the compartment containing the subwoofer.

Subwoofer Rear Panels

Figure 2 shows the controls and connections located on the subwoofer rear panel.



Subwoofer Connections

Power Connection

Your MS10SUB Cabinet Subwoofer features a removable IEC power connector for 115V (see Figure 2). Plug the female end of the power cord into the power cord connector on the subwoofer's rear panel and plug the male end into a grounded wall socket. DO NOT plug the subwoofer's power cord into a convenience outlet on any other audio or video component. Power Consumption Standby Mode 0.46W after 30 minutes without signal.

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 SUBWOOFER OF ALL THE CURRENT NECESSARY FOR FULL-POWER OPERATION.

NOTE: DO NOT PLUG THE POWER CORD INTO A POWER CONDITIONER OR UPS SYSTEM.

Audio Connections

Your Sonance Cabinet Subwoofer has flexible connections that let you use it in a wide variety of audio system configurations (see Figure 2).

Line Level

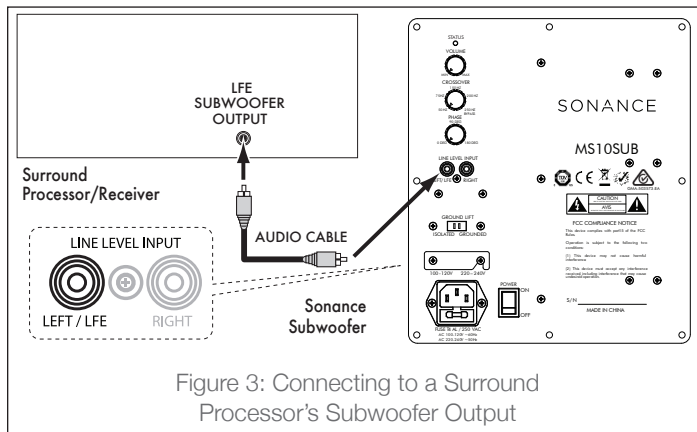
You can connect the subwoofer's line level input to a surround processor or receiver's line-level dedicated subwoofer LFE output or a stereo preamp/integrated amplifier's left and right variable main outputs.

Connection Examples

Follow the connection example that best describes your audio system. The examples are listed in descending order of preference, with the most ideal method presented first.

Option 1

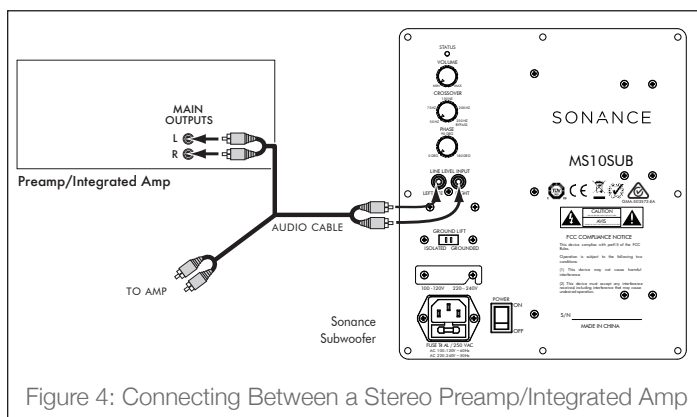
Surround sound processor, surround sound receiver, or stereo preamp with a dedicated subwoofer output (see Figure 3).



Connect the processor's dedicated subwoofer output to the left line level input jack labeled LEFT/LFE. If you are installing two subwoofers in the system, use a 'Y' connector to connect both subwoofers to the processor's subwoofer output.

Option 2

Stereo preamp/power amp combination or an integrated amplifier with preamp out jacks (see Figure 4).

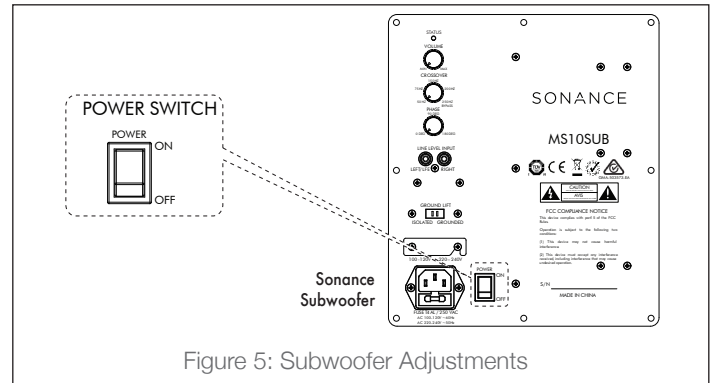


Connect the preamp/integrated amplifier's left and right main outputs to the subwoofer's line level input jacks.

Power On/Off

Once the subwoofer is properly connected for power and signal, engage the POWER switch from OFF to ON (see Figure 5).

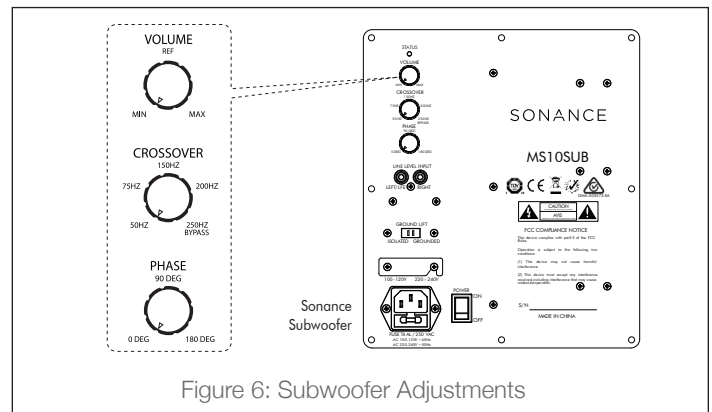
NOTE: NO SIGNAL WILL BE PASSED IF THE POWER SWITCH IS NOT PROPERLY SELECTED.



Subwoofer Adjustments

Volume Adjustments

The VOLUME control sets the subwoofer's volume output. When setting the subwoofer's volume 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 volume control that doesn't over-emphasize the bass or make it sound weak (see Figure 6).



The most accurate way to set the volume 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 subwoofer's volume control so that it plays at the same volume as the system's other speakers.

Crossover Adjustments

The crossover control adjusts the subwoofer's internal crossover frequency between 50Hz and 250Hz. The crossover's slope is 18dB/octave. The higher you set the crossover control, the higher in frequency the subwoofer will operate. Use the crossover control to achieve a smooth transition of bass frequencies between the subwoofer and your main speakers. Generally, the crossover control should be set at a lower frequency if your main speakers have larger woofers, and at a higher frequency if your main speakers have smaller woofers (see Figure 6).

When setting the crossover 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 a lower crossover control setting. If the bass seems too weak at certain frequencies (especially if your main speakers have smaller woofers), try a higher crossover control setting.

Ideally, the crossover control should be set to the frequency where your main speakers low-frequency response rolloff is -3dB down.

Phase Adjustments

When the subwoofer's PHASE switch is in the 0 position, a positive input voltage will cause the woofer cone to move out towards the room. When the phase switch is in the 180 position, a positive input voltage will cause the woofer cone to move in away from the room (see Figure 6).

There is no absolute correct setting for the phase switch. Depending on the location of the subwoofer relative to your main speakers and seating location, one of the settings will produce a better match with the main speakers, improving bass impact and in some cases, improving overall bass level as well.

To determine the correct setting of the phase switch, listen to music with significant impactful bass content with the switch in each position. It may be helpful to sit in the normal listening position while someone else changes the phase switch between 0 and 180. Leave the switch in the position that produces audibly louder bass with more impact.

Ground Lift

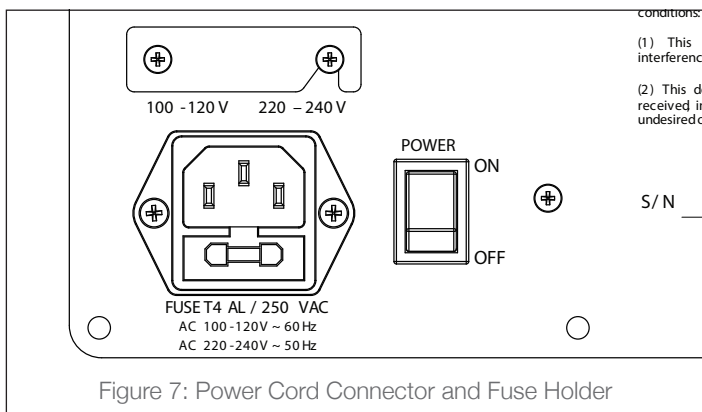
Your Sonance Cabinet Subwoofer features a ground lift switch available to eliminate most ground hum issues. To reduce the ground current and induced noises, switch the ground lift from isolated to grounded. Safety is not affected (see Figure 7).

Replacing the AC Fuse

Your subwoofer is factory-equipped with the following AC fuse:

T4 AL / 250 VAC

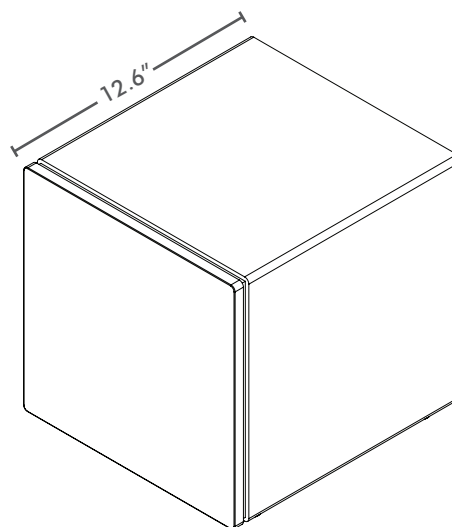
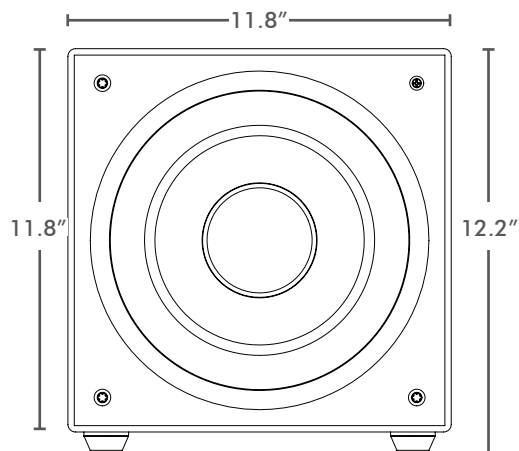
To replace the fuse, unplug the power cord from the Power Cord Connector and use a screwdriver to remove the fuse holder (see Figure 7).



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

Specifications

Model:	MS10SUB
SKU:	93447
Woofer:	10" (254mm) ultra long throw, polypropylene cone, rubber surround
Frequency Response:	27Hz - 250Hz +/-3dB
Enclosure Material:	MDF with textured black finish
Power Output:	275 watts RMS (550 watts peak)
Inputs:	Line-level (Left/LFE and Right)
Controls:	Volume, crossover, and variable phase
Cabinet Dimensions:	11.8" x 11.8" x 12.6"
(W x H x D)	(300mm x 300mm x 320mm)
Height with Feet:	12.2" (310mm)
Grille Material:	Black cloth
Shipping Weight:	38 lbs (17.24kg)



LIMITED THREE (3) 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 MS10SUB Subwoofer

Warranty Period for this Product: Three (3) 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, 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 (949) 492-7777 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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