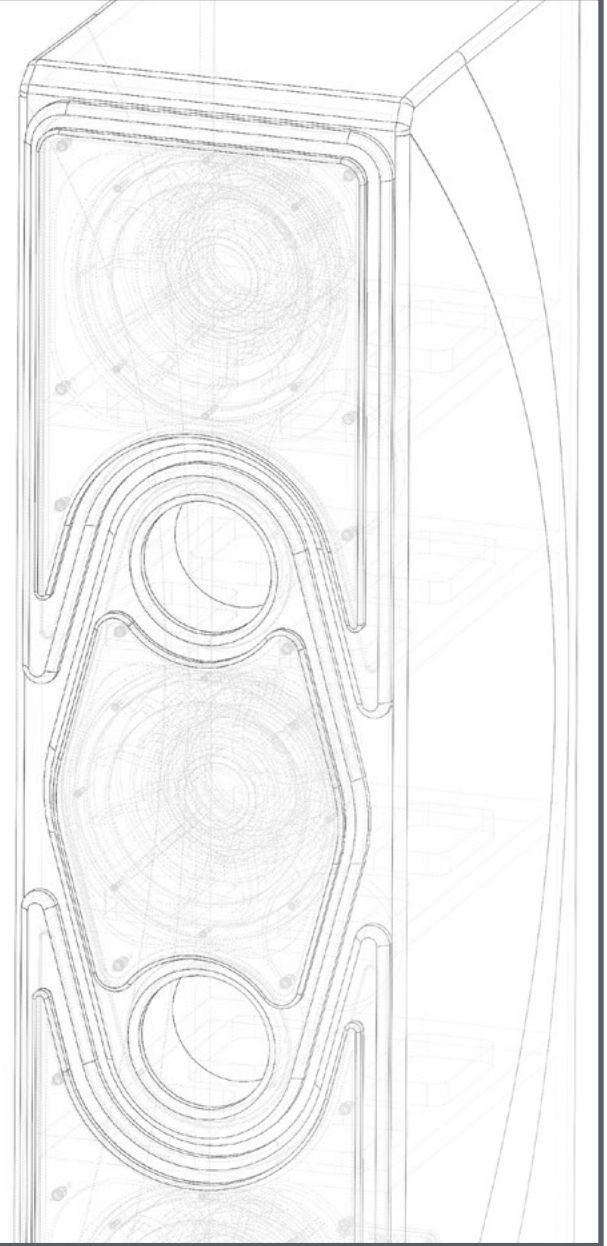


SIGNATURE SUBSONIC



OWNER'S MANUAL

WILSON
AUDIO



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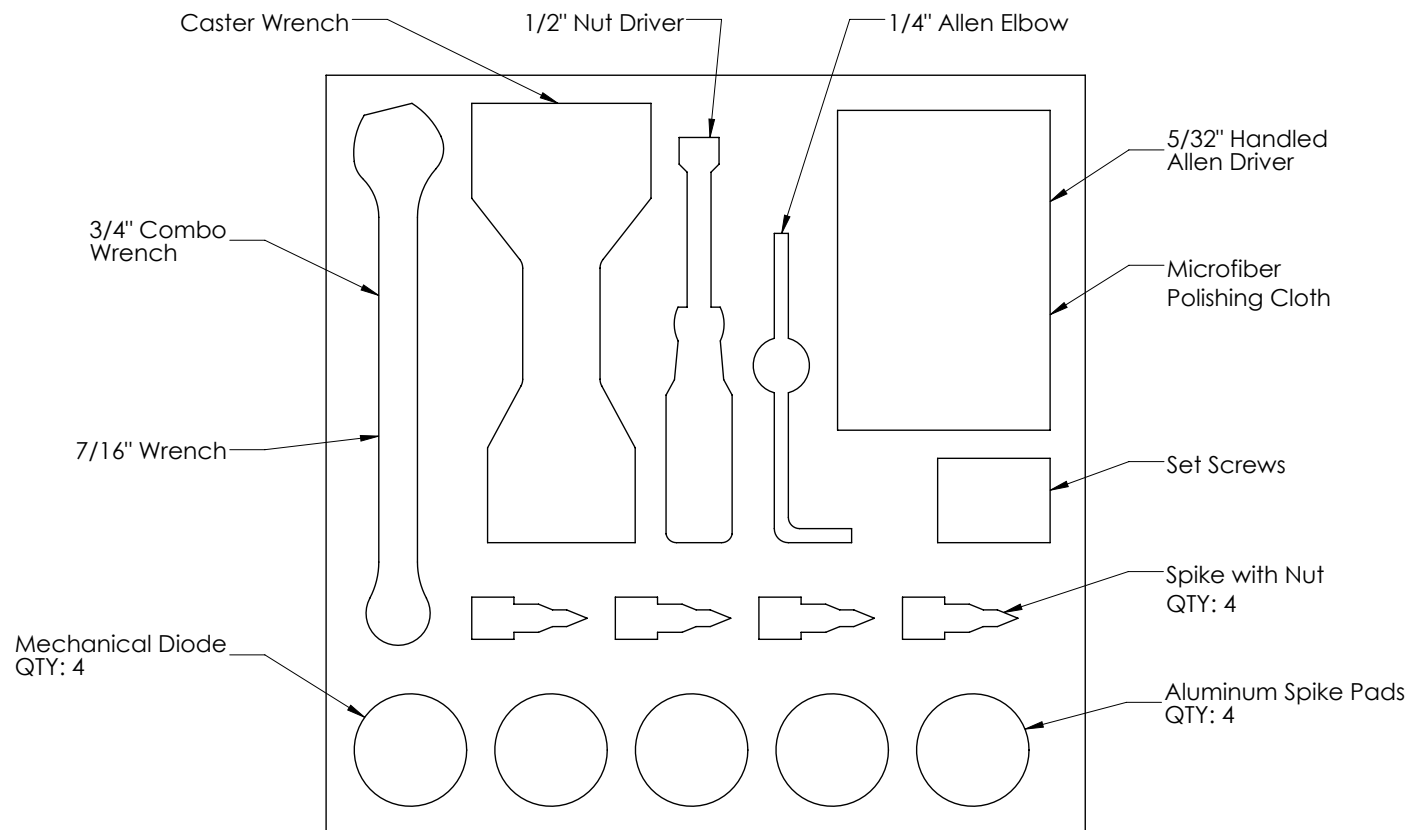
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SIGNATURE SUBSONICTM

OWNER'S MANUAL



UNCRATING SIGNATURE SUBSONIC

Note: To avoid damaging the Signature Subsonic's painted surface please remove any jewelry (rings, watches, necklaces, and bracelets) along with covering any belt buckles and zippers during this process.

Initial Check

The Signature Subsonic is shipped in a wooden crate. Upon receiving this crate, please check for any damage. If the crate has been damaged, please report it to the shipping company immediately for insurance verification.

The following items are recommended for this procedure:

- Electric Screwdriver/Drill
- Phillips Head Bit
- Suitable Tool to Cut Crate Band

Unpacking the Signature Subsonic

1. Cut the band wrapped around the crate. With the crate lid facing up, unscrew the wood screws securing the lid. Remove the lid.
2. Remove the Tool Kit and Owner's Manual from the crate. Set these aside so they are easily accessible during the installation process. Remove the foam piece from between the casters.

Note: This is at least a 3 to 4 person job. Do not attempt this by yourself. Signature Subsonic is extremely heavy. Care should be taken to prevent injury and/or damage to the product.

3. Carefully lift the crate up so that the Signature Subsonic casters are now facing the floor and the Signature Subsonic is oriented in a way to roll out of the crate. Mindfully roll the Signature Subsonic out of the crate.

4. Store the foam pieces back in the crate and screw the lid back on. Move crate out of installation area.

Note: Save the shipping crate and all packing materials. These items are specifically designed to prevent harm from coming to the Signature Subsonic during shipping.

5. Move the Signature Subsonic(s) and associated tools into the desired installation location. Be careful not to touch the driver element when you are moving the Signature Subsonic.

You will be using tools and parts in this kit throughout the installation process. Keep the Tool Kit close by.

- | | |
|---|--|
| • Owner's Manual | • (4x) 1/2"-13 Spike with Nut (<i>Acoustic Diode spike</i>) |
| • Full-Line Brochure | • (4x) Mechanical Diode (<i>Acoustic Diode spike</i>) |
| • Warranty Registration Form | • (4x) 1/2"-13 [1 1/2"] Set-Screw / All-Thread (<i>Acoustic Diode spike</i>) |
| • (1x) Microfiber Polishing Cloth | • (4x) 2" Aluminum Spike Pad |
| • (3x) Driver Grille | • 1/4" Allen Elbow (<i>spike diode set-screw</i>) |
| • 1/2" Nut Driver (<i>binding Post</i>) | • 3/4" Combo Wrench (<i>spike nut</i>) |
| • 3" Caster Wrench (<i>caster</i>) | • 7/16" Wrench (<i>spike tip</i>) |
| | • 5/32" Handled Allen Driver (<i>driver screw</i>) |

SIGNATURE SUBSONIC PLACEMENT GUIDELINES

Because the Signature Subsonic's frequency range is limited to the extreme sub-frequency bass range, its placement requirements are uniquely different than a full-range loudspeaker. The Signature Subsonic is shipped with casters installed on the bottom of the enclosure. Leave the casters installed as you move Signature Subsonic to the desired location.

The ideal position of the Signature Subsonic subwoofer is somewhat dependent on its primary use. In home theaters, where the Signature Subsonic is used as the Low Frequency Effects (LFE) channel, it may be located in a variety of positions, depending on listening space restrictions and architectural considerations. Your Authorized Wilson Audio Dealer will have the best insights for helping you install your Signature Subsonic in any configuration that works for your room.

In general, the lower frequency range will be reinforced by room boundaries and corners. Since most of the information contained in the LFE channel is in the sub-frequency bass range, with little information in the mid and upper bass, there are some advantages to placing the Signature Subsonic near the room boundaries or near a corner. Some care is needed to avoid potentially introducing upper-bass colorations that can be caused by corner placement.

Since all Wilson Audio speakers are phase and time coherent, it is very important to time align Signature Subsonic in the room using the Delay Function found on the ActivXO front panel (*see page 11*). To realize the best performance from your system, please contact your Authorized Wilson Audio Dealer to help you install your Signature Subsonic.

Here are some frequently asked questions to further help with your subwoofer installation.

Q: What is the best place to install my subwoofer(s)?

If possible, install your subwoofer(s) on the same “arc” as the front baffle of the main loudspeakers. You can use a simple string to do this. Hold one end of the string at the listening position and with the other end of the string touch the front baffle of the left channel main loudspeaker. Make sure the string is tight when marking the distance from the listening position to the main loudspeaker. While holding the string in the same place at the listening position you can walk back and forth in the listening space in-front of the listening position and see where the equal length arc is located.

If installing Signature Subsonic along this arc isn't an option, using the ActivXO PHASE function will sonically move the subwoofer without physically moving it (*see page 11*).

Q: When would I want to use two subwoofers instead of just one?

Using two subwoofers instead of one is more about quality than quantity (even if there is more LF output with two subwoofers). Two subwoofers will substantially add to the quality of sound reproduction in a listening room with full-range main loudspeakers, both in adding phase coherent bass extension and also subharmonic energy.

When you turn the well-calibrated subwoofers 'ON' your listening room will seem to expand and give you the impression that you are listening to the orchestra (or in the movie scene) in a much larger space. This phenomenon of increased soundstage scale occurs even when listening to recordings of a simple solo violin or harpsichord. Both of these instruments, which are incapable of producing bass fundamentals, sound much more realistic when the subwoofers are engaged.

One could argue that using two quality subwoofers, dedicated to the left and right LF information exclusively, is more about space enhancement and foundation forming than simply LF impact or rumble. For the highest quality in music playback, two subwoofers offer the best possible option for a truly satisfying experience.

Q: Do I need a subwoofer(s) in my system if I only listen to music?

The answer is 'YES' if your room can accommodate them.

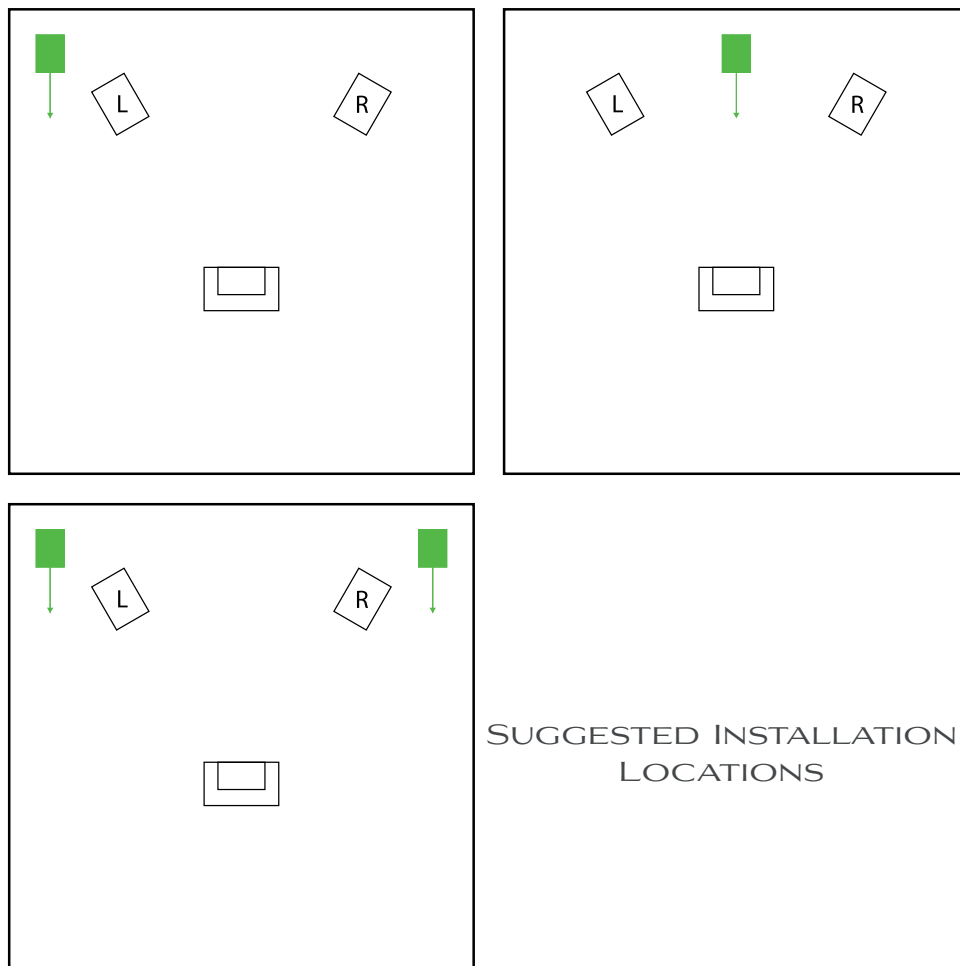
The benefits of subwoofers in your listening room will tend to give you the impression that you are listening to music in a much larger space. Adding one or two subwoofers to any music playback system is a great way to increase the performance, expression, scale, and realism of the performances played back through that audio system.

Q: What is the best crossover frequency for my subwoofer(s)?

The best crossover frequency, to a great extent, is system and room dependent. For LF applications, the subwoofer crossover frequency is usually set by the Low Pass control knob on the ActivXO front panel (*see page 11*) and/or the A/V Processor. This should be set to roughly 10Hz above the LF extension of your main loudspeakers.

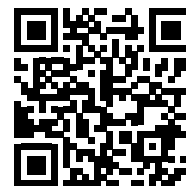
For music listening, using full-range Wilson Audio loudspeakers, the best option is to select the lowest possible subwoofer crossover frequency to start with. Listen to the results and adjust the Low Pass control knob to increase the crossover frequency depending on if the LF sounds accentuated / elevated / pronounced or lean / thin. While room acoustics play a big role in this calibration, the subwoofer crossover point setting is usually between 30Hz and 55Hz with an 12dB per octave roll-off while leaving the main loudspeakers functioning full range with no low frequency cutoff. Your Authorized Wilson Audio Dealer is happy to help you calibrate your system and find the best solutions for your system.

Your Authorized Wilson Audio Dealer is trained on how to seamlessly install subwoofers and how to effectively integrate one or more subwoofers into your theater and/or multi-channel audio system. Please contact them to help you find the best LF solutions for your system.



SUGGESTED INSTALLATION
LOCATIONS

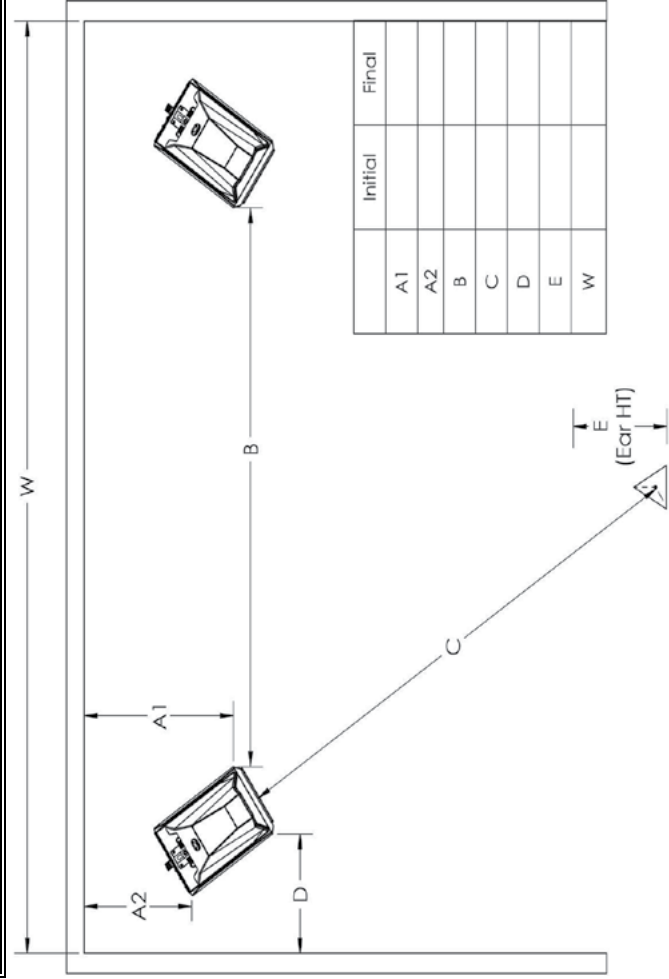
wilsonaudio.com/support/faq/21



VISIT OUR FAQ WEBSITE
FOR MORE INFORMATION

Location of Calibration: _____

NOTES:



ACTIV
XO

WILSON
AUDIO

INPUT SELECT

PROCESSOR

REM

LINE

LOW PASS

INPUT

LP IN

LP OUT

OUTPUT

BAL

UNBAL

SLOPE

LP 12dB

LP 18dB

LEFT

70 80 90 100 110 120 130 140 150

FREQ

70 80 90 100 110 120 130 140 150

RIGHT

70 80 90 100 110 120 130 140 150

LEFT

MIN

MAX

GAIN

MIN

MAX

RIGHT

MIN

MAX

LEFT

0 90 180

PHASE

0 90 180

RIGHT

0 90 180

HIGH PASS

INPUT

HP IN

HP OUT

OUTPUT

BAL

UNBAL

SLOPE

HP 6dB

HP 12dB

LEFT

70 80 90 100 110 120 130 140 150

FREQ

70 80 90 100 110 120 130 140 150

RIGHT

70 80 90 100 110 120 130 140 150

LEFT

MIN

MAX

GAIN

MIN

MAX

RIGHT

MIN

MAX

Dual Subwoofer Active Crossover

Dual Subwoofer Active Crossover

VOLTAGE SELECT

110-120V / 60 Hz
220-240V / 50 Hz

AC IN



MAIN POWER

ON

OFF

WILSON
AUDIO

DC 12V TRIGGER

ON/OFF

LINE / PROCESSOR

HIGH PASS FILTER
IN / OUT

LOW PASS FILTER
IN / OUT

R

L

HIGH PASS OUT

R

L

LOW PASS OUT

R

L

LINE IN

R

L

PROCESSOR

STEREO

MONO

UNBAL

BAL

UNBAL

BAL

Wilson Audio Specialties 2233 Mountain Vista Lane, Provo, Utah 84606 USA



RoHS
COMPLIANT



S/N: 19

USE WITH ACTIVXO

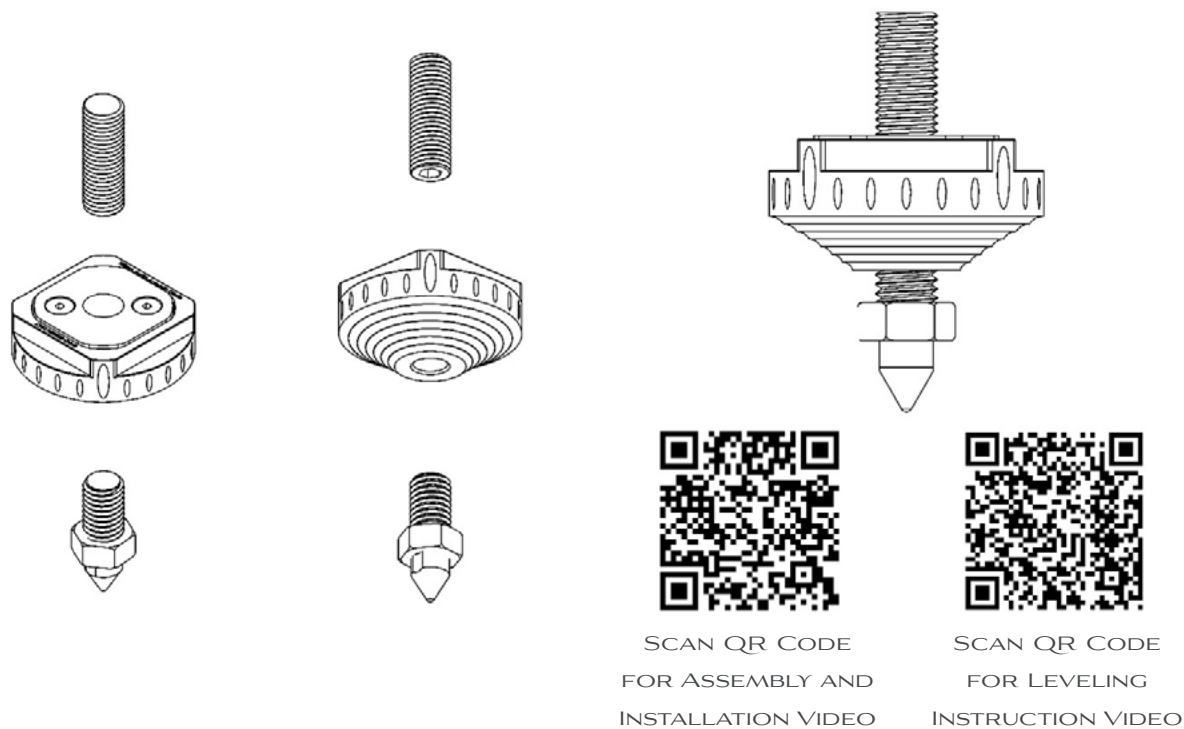
Wilson Audio ActivXO

Wilson Audio recommends connecting and using the Wilson Audio ActivXO as the subwoofer crossover for your music and/or home theater applications. Below you will find a QR code that will direct you to the ActivXO owner's manual. In the ActivXO owner's manual you will find important information on how to properly configured, integrate, and set up the Signature Subsonic.

**Non-ActivXO**

If the Signature Subsonic is not being used with an ActivXO please refer to the manual of the device being used to sonically integrate the Signature Subsonic into the audio system.

INSTALLING WILSON AUDIO ACOUSTIC DIODE



SPIKE & DIODE ASSEMBLY

Your Authorized Wilson Audio Dealer is trained in the art and science of the Wilson Audio Setup Procedure (WASP). Before the spike/diode assemblies are attached to the bottom of Signature Subsonic, the setup and fine tuning of Signature Subsonic should be completed. Before moving Signature Subsonic to install Spikes, use masking tape to carefully mark the floor around the bottom of the enclosure to use as a reference after the Spikes are installed.

Wilson Audio Acoustic Diode “Spike” Assembly

- Gather the threaded Spikes and install the nut to about one thread from the unthreaded Spike tip. This will allow for greater movement when leveling the loudspeaker later.
- Screw the spike/nut combo into the diode housing until the nut is against the diode.

Note: Do not tighten the nut against the diode yet. You will need to unscrew them when you level later.

- Place the set screw into the other end of the diode with the Allen head toward the Spike. This will ensure that, if for any reason you have to remove the Spikes, you will be able to withdraw the set screw safely using the supplied Allen wrench. Screw the set screw into the diode until it stops turning.
- Place the Acoustic Diode assemblies out of the traffic pattern until they are needed during the installation.

Note: Be very careful not to cross-thread the Spikes. The base of the Signature Subsonic is made of V-Material and can be cross-threaded if Spikes are installed at an angle.

Note: This is at least a 3 to 4 person job. Do not attempt this by yourself. Signature Subsonic is heavy and may seriously injure someone if tipped over. An assistant should stand to the rear or side of the Signature Subsonic to steady it during the spiking process. Using a Wilson Audio Jack is strongly recommended.

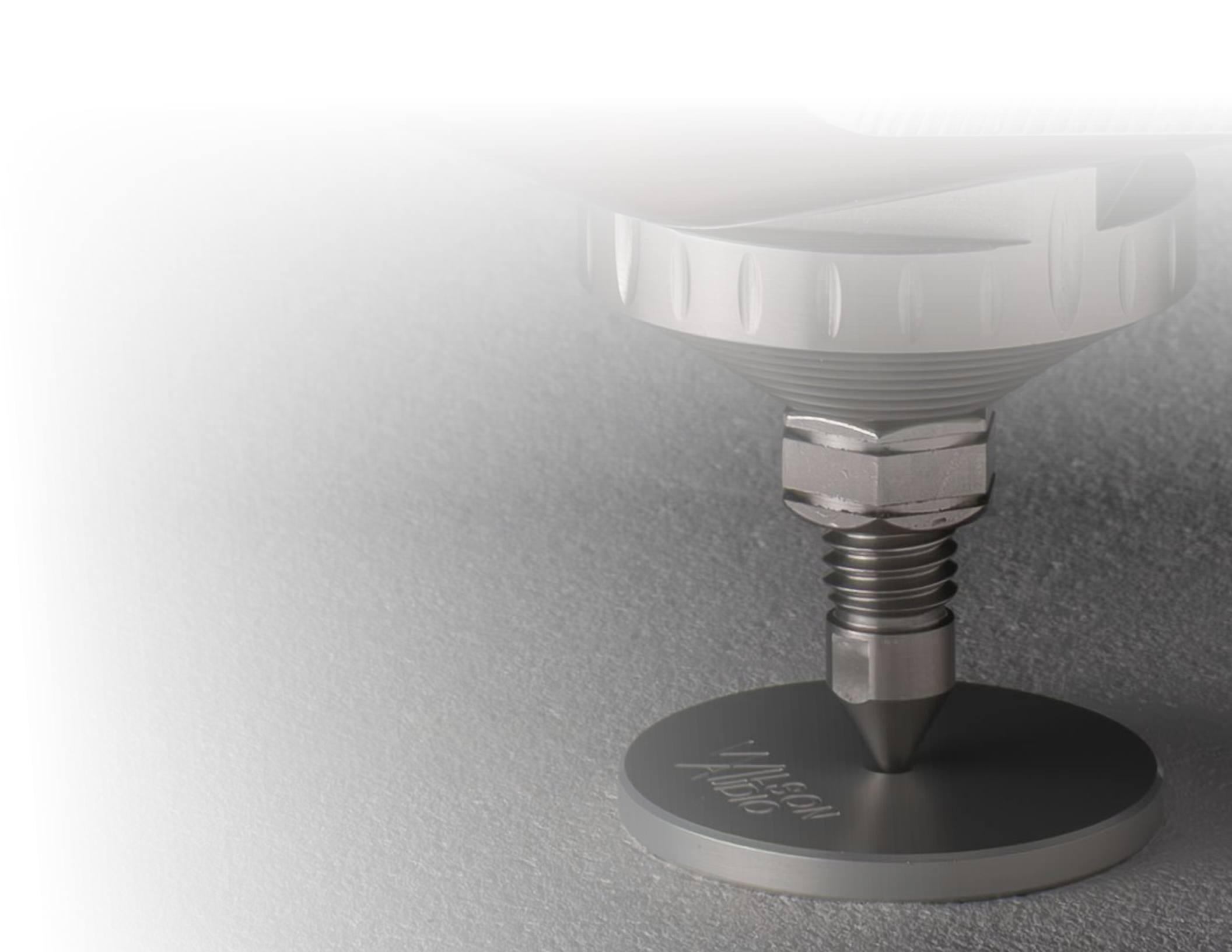
Installation Procedure

1. If leaning the Signature Subsonic to the side safely is not an option, or an assistant is unavailable to help stabilize the enclosure for this step, use a Wilson Audio Jack.
2. Using the 3" Caster Wrench, remove the casters on the side that is elevated.
3. Insert the Acoustic Diode assemblies into the two exposed threaded holes located on the bottom of the enclosure. Tighten until the top surface of the Acoustic Diode touches the bottom surface of the V-Material enclosure. Repeat on the other two threaded holes. **Hand tighten only!**
4. Taking care to observe the location of Signature Subsonic relative to the masking tape used during WASP documentation, return Signature Subsonic to the precise location marked on the ground.



LEVELING SIGNATURE SUBSONIC

1. Use a bubble level and determine if the Signature Subsonic is level or which side of the enclosure is lower than the rest making the enclosure uneven.
2. To find out which Spike is lowest, grasp the enclosure and **gently** rock it back and forth. This will identify the Spike that is out of level from the other three.
3. Adjust the Acoustic Diodes spike/nuts shorter and/or longer until the bubble shows the Signature Subsonic is level.
4. When finished leveling, you may rotate the Spike tips in place by using the supplied 7/16" wrench and tightening the nut with 3/4" wrench. **Note: When finished leveling, all the nuts should be "snug" against the Acoustic Diode housing to get the best performance. Do not over-tighten.**



SPECIFICATIONS

Woofers: *Three—12 inches (30.48 cm), Dual Spider*

Enclosure Type: *Dual Front Ported*

Cabinet Material: *X-Material, V-Material, 6061-T6 Aluminum*

Nominal Impedance: *4 ohms*

Sensitivity: *87 dB @ 1 watt @ 1 meter @ 1 kHz*

Frequency Response: *10 Hz - 150 Hz +0, - 3 dB*

Room Average Response [RAR]

Overall Dimensions: *Height— 67 1/4 inches (170.82 cm), with spikes*

Width— 18 1/2 inches (46.99 cm)

Depth (With Grill)— 27 1/8 inches (68.92 cm)

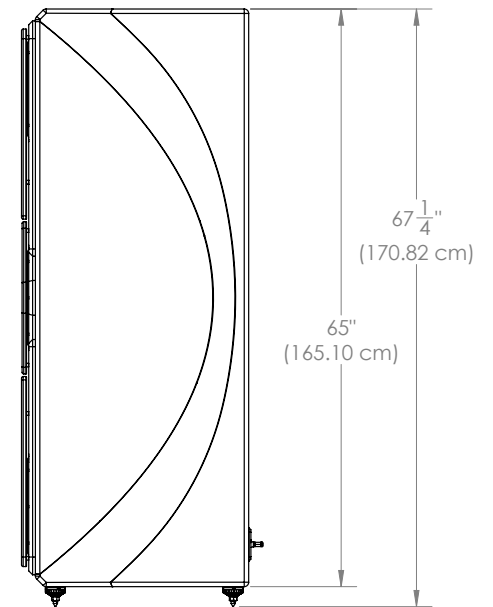
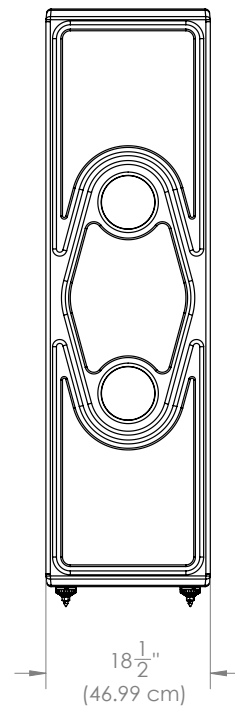
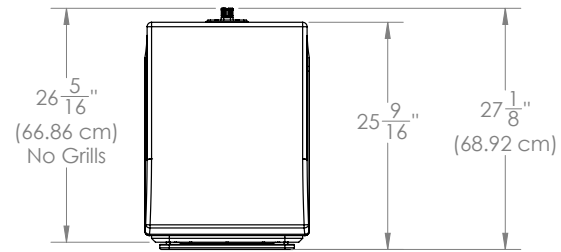
Depth (No Grill) — 26 5/16 inches (66.86 cm)

System Weight: *527 lbs each (239.04 kg)*

Total System Shipping Weight (Approximate): *710 lbs each (322.05 kg)*

DIMENSIONS 17

DIMENSIONS



WARRANTY DETAILS

Limited Warranty

Subject to the conditions set forth herein, Wilson Audio warrants its electronics to be free of manufacturing defects in material and workmanship for the Warranty Period. The Warranty Period is a period of 90 days from the date of purchase by the original purchaser, or if both of the following two requirements are met, the Warranty Period is a period of five (5) years from the date of purchase by the original purchaser:

Requirement No. 1. No later than 30 days after product delivery to the customer, the customer must have returned the Warranty Registration Form to Wilson Audio. Alternatively, the warranty may be filled out on Wilson Audio's website.

Requirement No. 2. The product must have been professionally installed by the Wilson Audio Dealer that sold the product to the customer.

FAILURE TO COMPLY WITH EITHER REQUIREMENT NO. 1 OR REQUIREMENT NO. 2 WILL RESULT IN THE WARRANTY PERIOD BEING LIMITED TO A PERIOD OF 90 DAYS ONLY.

Conditions

This Limited Warranty is also subject to the following conditions and limitations. The Limited Warranty is void and inapplicable if the product has been used or handled other than in accordance with the instructions in the Owner's Manual, or has been abused or misused, damaged by accident or neglect or in being transported, or if the product has been tampered with or service or repair of the product has been attempted or performed by anyone other than Wilson Audio, an authorized Wilson Audio Dealer Technician or a service or repair center authorized by Wilson Audio to service or repair the product. Contact Wilson Audio at 1(801) 377-2233 for information on location of Wilson Audio Dealers and authorized service and repair centers. Most repairs can be made in the field. In instances where return to Wilson Audio's factory is required, the Dealer or customer must first obtain a return authorization. Purchaser must pay for shipping to Wilson Audio, and Wilson Audio will pay for shipping of its choice to return the product to purchaser. A RETURNED PRODUCT MUST BE ACCOMPANIED BY A WRITTEN DESCRIPTION OF THE DEFECT. Wilson Audio reserves the right to modify the design of any product without obligation to purchasers of previously manufactured products and to change the prices or specifications of any product without notice or obligation to any person.

Remedy

In the event that the product fails to meet the above Limited Warranty and the conditions set forth herein have been met, the purchaser's sole remedy under this Limited Warranty shall be to: (1) contact an authorized Wilson Audio Dealer within the Warranty Period for service or repair of the product without charge for parts or labor, which service or repair, at the Dealer's option, shall take place either at the location where the product is installed or at the Dealer's place of business; or (2) if purchaser has timely sought service or repair and the product cannot be serviced or repaired by the Dealer, then purchaser may obtain a return authorization from Wilson Audio and at purchaser's expense return the product to Wilson Audio where the defect will be rectified without charge for parts or labor.

Warranty Limited to Original Purchaser

This Limited Warranty is for the sole benefit of the original purchaser of the covered product and shall not be transferred to a subsequent purchaser of the product, unless the product is purchased by the subsequent purchaser from an authorized Wilson Audio Dealer who has certified the product in accordance with Wilson Audio standards and requirements and the certification has been accepted by Wilson Audio, in which event the Limited Warranty for the product so purchased and certified shall expire at the end of the original Warranty Period applicable to the product.

Demonstration Equipment

Equipment, while used by an authorized Dealer for demonstration purposes, is warranted to be free of manufacturing defects in materials and workmanship for a period of five (5) years from the date of shipment to the Dealer. Demo equipment needing warranty service may be repaired on-site or, if necessary, correctly packed and returned to Wilson Audio by the Dealer at Dealer's sole expense. Wilson Audio will pay return freight of its choice. A returned product must be accompanied by a written description of the defect. Dealer owned demonstration equipment sold at retail within two (2) years of date of shipment to the Dealer is warranted to the first retail customer to be free of manufacturing defects in materials and workmanship for the same time periods as if the product had originally been bought for immediate resale to the retail customer. Wilson Audio products are warranted for a period of 90 days, unless extended to 5 years, as provided above, by return and filing of completed Warranty Registration at Wilson Audio within 30 days after product delivery to customer and the product was professionally installed by the Wilson Audio Dealer that sold the product to the customer.

Miscellaneous

ALL EXPRESS AND IMPLIED WARRANTIES NOT PROVIDED FOR HEREIN ARE HEREBY EXPRESSLY DISCLAIMED. ANY LEGALLY IMPOSED IMPLIED WARRANTIES RELATING TO THE PRODUCT SHALL BE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. THIS LIMITED WARRANTY DOES NOT EXTEND TO ANY INCIDENTAL OR CONSEQUENTIAL COSTS OR DAMAGES TO THE PURCHASER.

Some states do not allow limitations on how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This Limited Warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.



WARRANTY
REGISTRATION FORM



- Replacement Resistors
- Books and Literature
- Custom Loudspeaker Covers
- Installation Tools and Accessories
- New Grilles and Diffraction Blankets
- WilsonGloss Care Products and Kits
- Wilson Audio Signature Apparel
- Upgrade Spikes and Binding Posts
- . . . And More

Visit our Service Channel on YouTube to view How-To videos



PARTS STORE



SERVICE CHANNEL