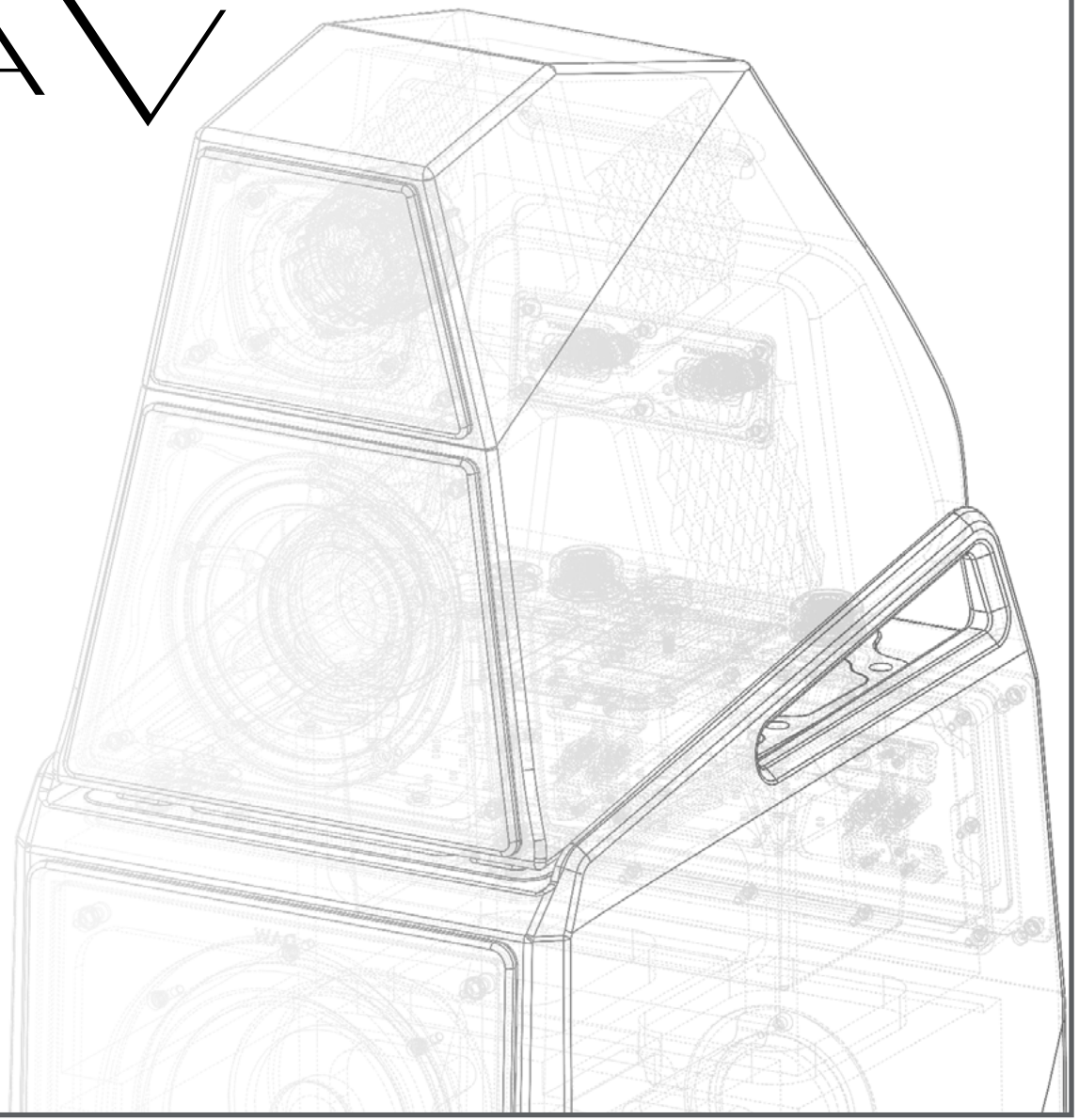
SASHA V



INSTALLATION AND CARE GUIDE

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SECTION 1—WASP SETUP

Section 1.1—WASP

An instructional video outlining the Wilson Audio Setup Procedure (WASP) can be found here: www.wilsonaudio.com/ wasp. The proper positioning of your new Sasha V within your room is critical in order to extract its formidable performance envelope. When carefully followed, the WASP has proven to be the most effective method for setting up Wilson Audio loudspeakers. Your authorized Wilson Audio Dealer is trained in this process, and is the best resource for you to ensure your loudspeakers are setup properly.

WASP Video

Viewing the video is the best way to learn how to properly employ WASP, but we have also included a simplified outline of it here.

Zone of Neutrality: Left and Right Channel

The “Zone of Neutrality” is an area in your room where the speakers will sound most natural. This location is where the speakers interact the least with adjacent room boundaries. It is important to have a clear working space while determining the Zone of Neutrality.

The following is a simple method to locate the Zone of Neutrality within your listening environment:

1. Stand against the wall BEHIND the location where you intend to position your loud speakers. Speaking in a moderately loud voice and at a constant volume, project your voice out into the room. Your voice will have an overly heavy, “chesty” quality because of your proximity to the rear wall.

2. While speaking, slowly move out into the room, progressing in a direction parallel to the sidewall. It is helpful to have another listener seated in the listening position

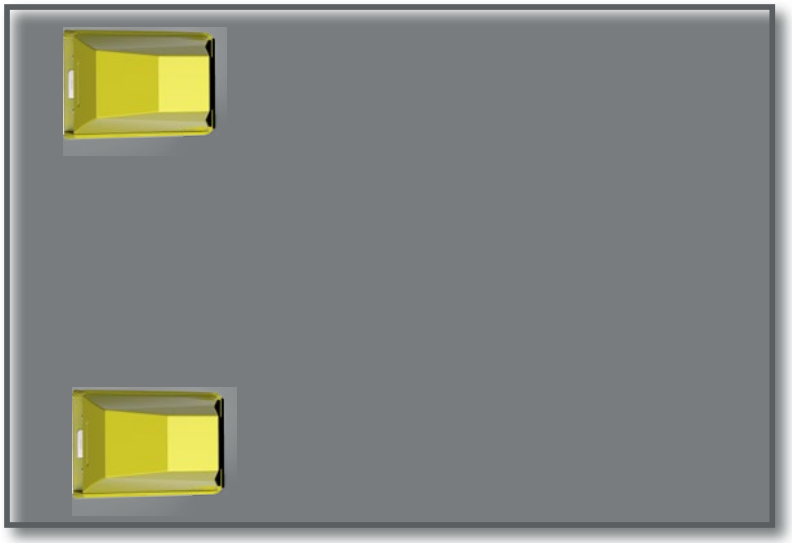
to assist you during this process. Listen to how your voice “frees up” from the added bass energy imparted by the rear wall boundary. Also, notice that your voice is quite spatially diffuse (to your assistant, your voice will sound spatially large and difficult to localize) as you begin to ease away from the rear wall.

3. At some point during your progression forward into the room, you will observe a sonic transition in your voice; it will sound more tonally correct and less spatially diffuse (your assistant can now precisely localize the exact origin of your voice). When you hear this transition, you have entered the inner edge of the Zone of Neutrality. Place a piece of tape on the floor to mark this location. Although it will vary from room to room, in most rooms the zone begins between two and a half to three feet from the rear wall.

4. Continue to walk slowly away from the rear wall. After some distance, usually one to two feet past the first piece of tape, you will begin to hear your voice lose focus and appear to reflect (echo) in front of you. This is caused by the return of the room’s boundary contribution; your voice is now more noticeably interacting with the opposite wall. At the point where you begin to hear the reflected sound of your voice, you have reached the outer edge of the Zone of Neutrality. Place a piece of tape on the floor and mark this location. The distance between the “inner” and “outer” edge tape marks is usually between eight inches (for small, interactive rooms) and three feet (for large, more neutral rooms).

5. Now position yourself against the side wall perpendicular to the intended speaker location. Stand between the two tape marks. Using the same procedure as above, begin moving into the room toward the opposite sidewall, progressing between the two pieces of tape. As above, listen for the point in the room where your voice transitions from bass-heavy and diffuse to neutral. Mark this point with tape. Continue your progression until there is an obvious and distracting interaction with the wall in front of you and mark this point with tape. The four pieces of tape now form a rectangle that establishes the Zone of Neutrality for the loudspeaker to be installed on that side of the room.

When carefully followed, the WASP has proven to be the most effective method for setting up Wilson Audio loudspeakers.



6. Repeat this process for each speaker location individually. These are your Zones of Neutrality, one for each channel.

Theoretically, the Zone of Neutrality for any room runs like a path, parallel to the walls all around the room. Adjacent to very large windows and open doors, the outer edge of the Zone of Neutrality moves closer to the wall and becomes wider. If you were to extend the inner and outer boundaries of the Zone for the sidewalls and the front wall (behind the speakers), they would intersect.

Speaker Placement Versus Listening Position

The location of your listening position is as important as the careful setup of your Wilson Audio loudspeakers. The listening position should ideally be no more than 1.1 to 1.25 times the distance between the tweeters on each speaker. Therefore, in a long, rectangular room of 12’ x 18’, if the speaker tweeters are going to be 9’ apart, you should be sitting 9’11’’ to 11’3’’ from the speaker. This would be more than halfway down the long axis of the room.

Many people place the speakers on one end and sit at the other end of the room. This approach will not yield the finest sound. Carefully consider your listening position. Our experience has shown that any listening position that places your head closer than 14” from a wall, or exactly in the center of a room, will diminish the sonic results of your listening due to the deleterious effects of boundary interaction.

Speaker Orientation

Speaker placement and orientation are two of the most important considerations in obtaining superior sound. The first thing you need to do is eliminate the sidewalls as a sonic influence in your system. Speakers placed too close to the sidewalls will suffer from a strong primary reflection. This can cause out-of-phase cancellations, or comb

filtering, which will cancel some frequencies and change the tonal balance of the music. Adhering to the Wilson Audio Setup Procedure outlined in this section, and as shown in the instructional video we link to, is the best method with which to position your loudspeakers.

A very important aspect of speaker placement is how far from the back wall to place the speakers. The closer a loudspeaker is to the back wall, the more pronounced the low bass energy and centering of the image will be. However, this comes at a definite reduction in soundstage size and bloom, as well as a deterioration of upper bass quality. You must find the proper balance of these two factors, but remember, if you are partial to bass response or air and bloom, do not overcompensate your adjustments to maximize these effects. Overcompensated systems are sometimes pleasing in the short-term, but long-term satisfaction is always achieved through proper balance.

To make correct in-home setup of the Sasha V possible without test equipment, Wilson Audio has measured the correct geometric time domain alignment for different distance/ear height combinations. By measuring the distance from the speaker to your ear (measured on the floor from the bottom/front of the Woofer to directly below the ear canal) when seated in the listening position, as well as height of the listener's ear (the distance from the floor to the center of the ear canal), you will be able to align the system for your listening position. Learn more about this in Section 3.

Date of Calibration:_____

Location of Calibration:_____

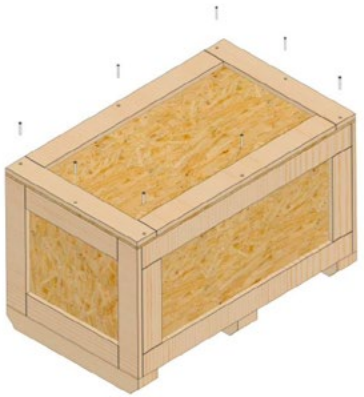
GRID DISTANCE "A" FROM WALL BEHIND SPEAKERS	L.F. LOW BASS EXTENSION	L.F. UPPER BASS QUALITY	SOUND STAGE CENTER FOCUS	SOUND STAGE AMBIENT BLOOM	HARMONIC BALANCE	SENSE OF DYNAMICS	FLOW

NOTES:_____
_____
_____
_____
_____
_____

	Initial	Final
A		
B		
C		
D		
E		
W		

Upper Array

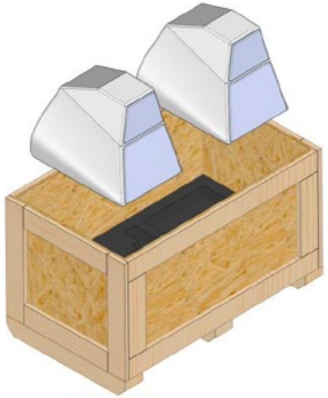
1. Remove screws as shown in image.



2. Remove and set aside crate lid.

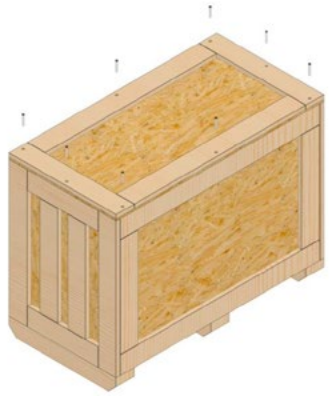
3. Remove tool kit, spike kit, and manual from foam, then remove foam. Set all aside.

4. Remove upper modules, one at a time, and set aside. Use caution to prevent damage.

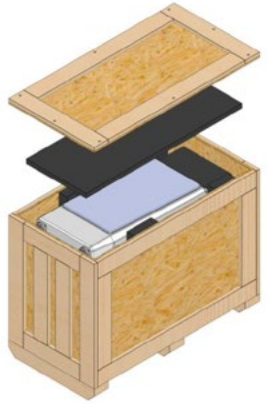


Woofer

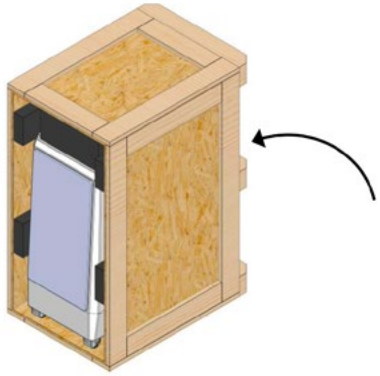
1. Remove screws as shown in image.



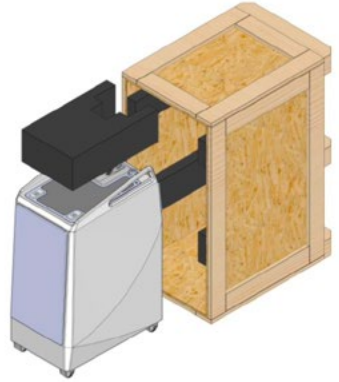
2. Remove and set aside crate lid and foam pieces.



3. With help, lift crate up so that woofer is resting on casters. Use caution to prevent damage.



4. With help, roll woofer out of crate. Use caution to prevent damage.



SECTION 2— UNCRATING SASHA V

Note: You will have two Upper Array enclosures as well as two Woofer Module enclosures to unpack. The two modules for each of the channels will need to be separated into right and left channels. Clear out two spaces in your room, one for your left and one for your right channels. For channel matching, place the ODD numbered modules in the LEFT channel position and the EVEN numbered modules in the RIGHT channel position.

Section 2.1—Uncrating Sasha V

Note: Please remove any jewelry such as rings, watches, necklaces, and bracelets along with covering belt buckles and zippers during this process to avoid damaging the Sasha V's painted surface.

Initial Check

The Sasha V is shipped in three wooden crates (see page 12 for visual guide). Upon receiving these crates, please check their condition. If any of the crates are damaged, please report it to the shipping company immediately for insurance verification.

The following items are recommended for this procedure:

- Electric Screwdriver
- Phillips Head Bit
- Suitable Tool to cut the band around crates

Uncrating the Woofer Module

A minimum of two strong adults is required to setup the Sasha V. Locate the two largest crates labeled "Sasha V Lower." These contain the Woofer enclosures and are the first components of the system to unpack.

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. Carefully lift the crate upright so that the Woofer Module is now vertical. With the Woofer Module's bottom toward the floor, reach in and gently roll the Woofer Module out of the crate, carefully, so as not to hit the Woofer Module on the crate and scratch the paint.

3. Place the Woofer Module with an odd serial number on the left side of the room and the Woofer Module with an even serial number on the right side of the room.

Note: These two Woofer Modules are very heavy and care should be taken to prevent injury. Roll the Woofer Module with drivers facing forward for the best stability.

Uncrating the Upper Array

The Upper Arrays are contained in a single crate labeled "Sasha V Uppers." Unpack the enclosures using the following procedure:

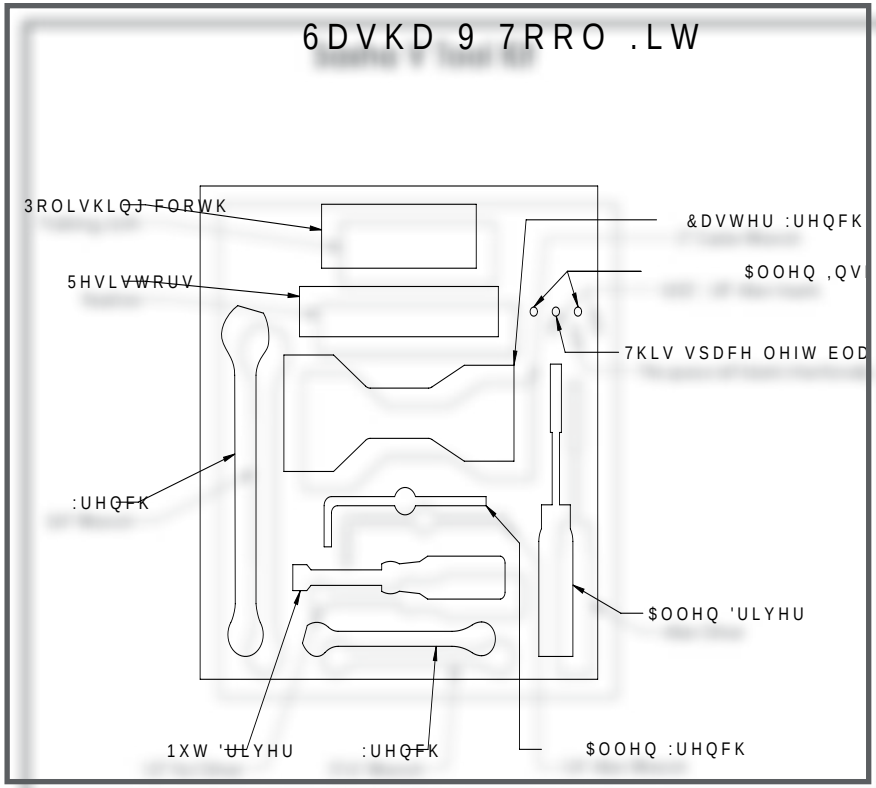
4. Cut the band wrapped around the crate. With the crate lid facing up, unscrew the wood screws securing the lid. Remove the lid.

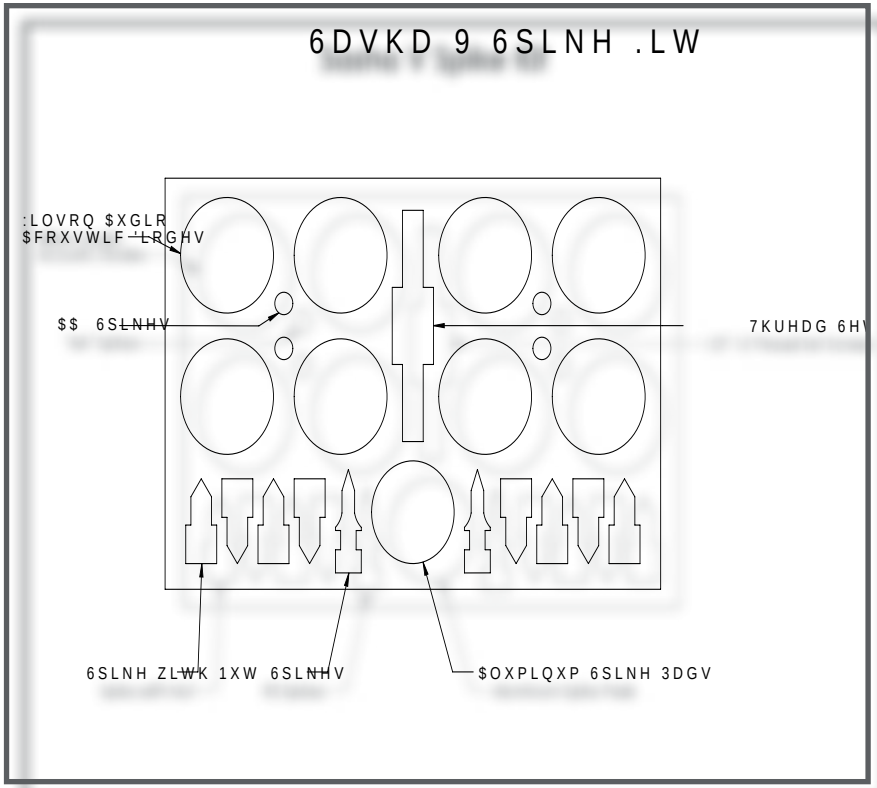
5. The Upper Array crate contains this Installation and Care Guide, the Tool Kit, and the Spike Kit(see page 16). Remove these and all other documents found in the crate.

6. When removing the Upper Arrays, take care so as not to hit the modules on the crate and scratch the paint. Using the small shelf on the rear of the module, tilt the module so there is access to the bottom side. Slide the other hand under the Upper Array for support, and carefully lift the enclosure out of the crate.

7. The cloth grilles are attached to the enclosures. Detach the grilles from each enclosure and remove the protective plastic covering the grilles.

You will be using tools and parts in these kits throughout the installation process. Keep the Sasha V Tool Kit and Spike Kit at hand.





8. Place the Upper Array with an odd serial number on the left side of the room and the Upper Array with an even serial number on the right side of the room with the drivers facing the wall (to protect the drivers while uncrating and the installation process).

Note: After the system is setup, keep the shipping crates for future shipping needs.