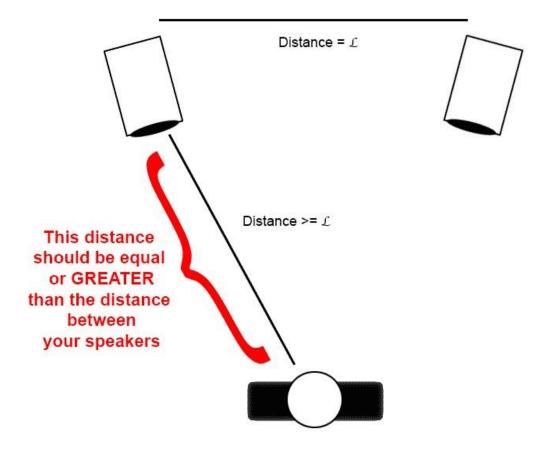
Shinjitsu Wood Duo Manual

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Placement:

Speakers should be placed equidistance from side walls if possible, with at least 5 feet between them. Speaker should toe in approximately 15 degrees or having the main drivers placed just outside your ears.

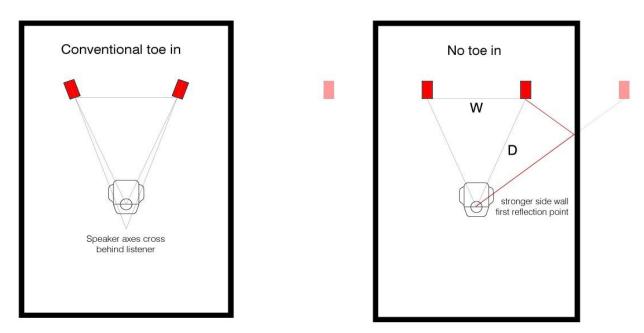


Room Size:

The ideal room should be rectangular or square with equal distribution of furniture. Of course, most rooms do not fall into this category so some balance adjustments or wall treatments may be needed. Speakers should be placed at least 2 feet from the back wall to minimize wall reflections and to present a deep soundstage. Bass impact and depth can be adjusted using back wall distances with closer to the back wall maximizing bass output. Bass boominess can be tamed by pulling the speakers farther out into the room. I severe cases when back wall placement must be less than 1 foot a small amount of wool or Dacron stuffing can be placed into the horn exit.

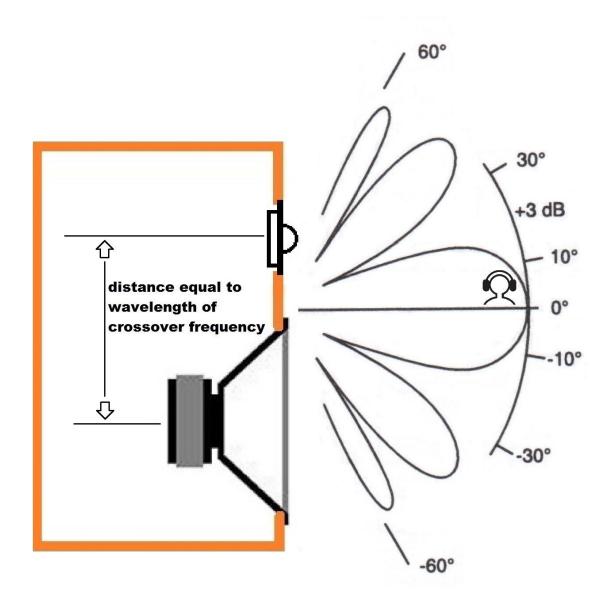
Toe In:

Speaker toe in can be defined as: pointing a loudspeaker inward toward the listener rather than aiming it straight ahead. Toeing-in the speakers can reduce the apparent size of the sound stage but allows more precise image definition. When toed-in, the speakers provide a more focused and sharply delineated soundstage. Excessive toe in can produce an overly narrow sound stage lacking in spaciousness and causing beaming of high frequencies.



Rake or Tilt:

Speaker rake or tilt can affect how the high frequency balance is delivered. Too much tilt back can beam the high frequencies above you r ears resulting in decreased highs and prominent midrange. Too little tilt back can do the same. Ideally tilt should be adjusted using wooden blocks under the speaker front or by purchasing out Shinjitsu Audio Plinth. Tilt should be from 10 degrees to 15 degrees. This tilt will affect the polar response of the speaker as shown below:



2 way system with 2nd order crossover

Speaker Height:

These speakers are designed to be floor standers. They must be placed on the floor to produce adequate bass reinforcement. Sever loss of bass will occur if they are placed onto speaker stands. Stereo imaging can be adjusted by using tilt back and back wall placement.

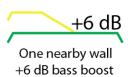








No nearby walls
No increased bass response



+12 dB
Two nearby walls
+12 dB bass boost

Three nearby walls +18 dB bass boost

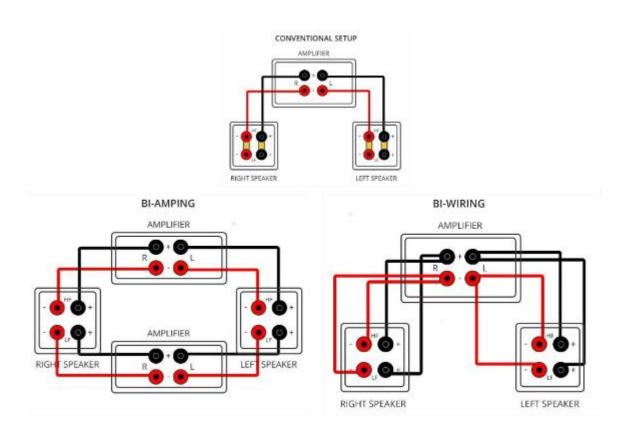
Crossover:

This speaker utilizes a second order crossover for the bass and first order for the h1gh. There is but one coil at 1800 Hz and one capacitor Mundorf Cap on the high frequency driver the bass frequencies. They are both high quality components. If you desire the capacitor is easily accessible via the back plate and is not soldered into place. This can be exchanged with similar value and rating of a non-polarized film type of your choice if you desire. The coil is secured in place and should not be tampered with a sit is of enough gauge and quality that further improvements by exchanging it is pointless.

Bi Wiring and Bi Amping:

These speakers can be wired in one of three ways:

- 1) Conventional wiring style: The supplied jumpers are placed between the high frequency terminals and low frequency terminal Plus and Minus (or Red and black). One set of speaker wires go to the respective R and L amplifiers.
- 2) Bi Wiring Style: One set of wires go from the high frequency terminals and one set from the low frequency terminals to a common L or R terminal on one amplifier.
- 3) Bi Amp Style: One set of wires go from the high frequency terminals to either the R or L terminals on one amplifier set of speaker wires go from the low frequency terminals to another amplifier L or R terminals. See illustration below:



Back Plate:

The speaker back plate is configured to provide three sets of terminals:

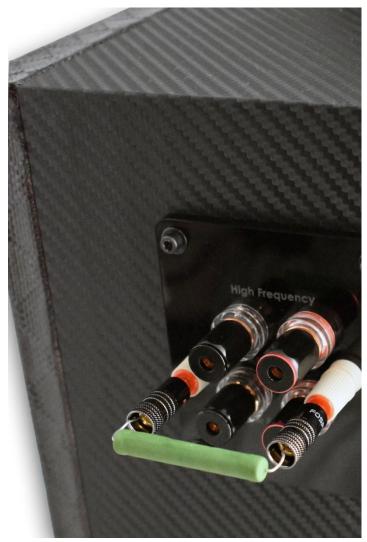
- 1) High Frequency terminals Plus and Minus (Red and Black)
- 2) Attenuation resistor polarity is not important
- 3) Low Frequency Terminals Plus and Minus (Red and Black)

Connect the terminals to your amplifier(S) as indicated in the section titled Bi Wire and Bi Amp. If using conventional single amplifier set up per channel use wire jumpers between booth Plus terminals and both Minus terminals. THE RESISTOR TREMINALS REMAIN SEPARATE. These are used to attenuate the Air Motion Transformer high frequencies.



Attenuation Resistor:

The speaker is supplied with a high frequency attenuation resistor accessible via the back-plate terminals. It is available for you to set the high frequency balance to suit your tastes and room. Lower values of resistor increase the high frequencies and higher values of resistors decrease the high frequencies. Bass be seemed to be enhanced as well with higher values of resistors. The supplied resistor is placed across the attenuation terminals.



Cleaning and Maintenance:

Dirt and smudges may be wiped off with a microfiber cloth dampened with glass cleaner. Do not spray cleaner on the Air Motion Transformer, back plate or the Fostex Driver. These will be damaged.

Specifications:

- Minimum Wattage required variable depending on room size and musical tastes but should be at least 10 watts.
- Maximum Wattage: unlimited amplifier wattage but should no exceed 30 watts continuous which will achieve a SPL (loudness) of > 103 db which is quite load in most rooms.
- Maximum SPL as tested: 103 db.

- Frequency Response: 32Hz to > 20 Khz +3 or -3 db.
- Frequency response graph at 3 meters using Omni Mic