

## Using the Heritage

### Connection to amplifier or receiver:

We recommend standard 18-gauge "lamp" cord (or larger multistranded cable) for connecting this speaker to your amplifier or receiver. It is suitable for runs up to 16 feet. 16 and 14 gauge are suitable for 24 and 38 feet respectively.

In a stereo system, it is important that each speaker be connected in the same way to each channel of the amplifier. This ensures that the speakers operate "in phase," that is, that their cones move back and forth together to yield fullest bass response and proper stereo imaging.

Connecting speakers identically to each channel is facilitated by the coding of each pair of speaker terminals on your amplifier by "+" and "-", different colors, or other means (see your amplifier's operating instructions). The speakers' terminals, in turn, are marked "+" and "-". For any one speaker it does not matter which of the pair of terminals on the amplifier corresponds to which terminal on the speaker. But it is important that all speakers be connected identically. For example, if you connect the "-" terminal on one amplifier channel to the "-" terminal on the first speaker you hook up, connect successive speaker(s) the same way. Most lamp cord is also coded, by such means as ribbing along the insulation of one lead, to help you make identical connections.

After the speakers are connected, you can check for proper phasing by means of a simple listening test. Place the speakers face-to-face, just a few inches apart. Set your amplifier to Mono, play some music, and reverse the connections to one speaker. Whichever way yields fuller and louder sound is the correct one.

### Speaker placement:

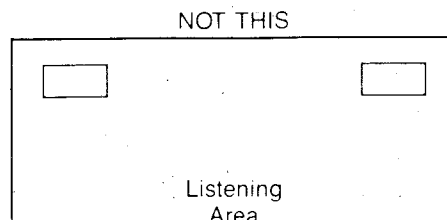
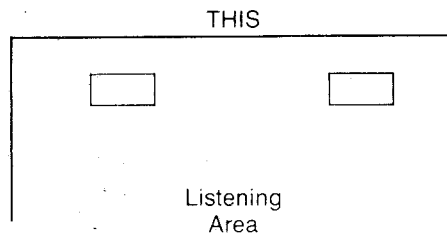
Your goal, and ours, is to achieve flat frequency response and optimum stereo imaging in spite of any undesirable acoustic properties your room may have.

Placement is critical in matching your new speakers to the room, and to your taste.

Your Heritage speakers are designed for floor placement. Their height and driver spacing are designed for optimum imaging and frequency response.

A speaker's placement in relation to its closest rear and/or side wall(s) can greatly affect bass response; moving the speaker close to a wall(s) boosts the bass, and the closer it is, the greater the boost. Exactly how close the speaker is placed from the wall(s) should be determined by your taste, but one placement pitfall should be noted. In order to achieve symmetry in interior design, each speaker is often placed the same distance from its rear wall as from its nearest side wall in a corner. In this position the sound waves reflecting off of the corner walls can create an undesirable, severe dip in mid-bass frequencies.

In general, it is best to place each of your Heritage speakers as close as possible to one corner wall and three times, or at least twice, that distance from the other corner wall (for example, 1' from the rear wall and 3' from the side wall). A minimum of 3' from the farthest wall is recommended.



### Power handling

As with any product, your Advent loudspeakers have operating limits, and consistently exceeding those limits will damage the speakers. Fortunately, there is an audible warning when those limits are reached: distortion, such as "fuzzy" or "gritty" sound which is usually the result of driving an amplifier beyond its undistorted power capability. Overdriving an amplifier or receiver—**including one with a modest power rating**—in turn overdrives the speaker so that permanent damage results. Should you encounter the warning of distortion at loud volume levels, no harm will be done if you immediately turn down the volume to a point where the distortion disappears. **However, prolonged operation at distorted volume levels can damage the speaker system, and such damage is not covered by the warranty.**

Frequency Response	42 Hz to 23 kHz ±3dB
Tweeter Dispersion (Variance 30° vertical or horizontal to 13 kHz)	Less than ± 1dB
Impedance (Nominal)	6 to 8 Ohms
<b>If you intend to play more than one pair of Advent loudspeakers simultaneously, please contact your amplifier/receiver manufacturer to verify low impedance capability of your equipment.</b>	
Power Handling (peak) (RMS)	600 Watts 150 Watts
Sensitivity	89.5 dB (2.83 volts @ 1 meter)
Crossover Frequency	3.5 kHz
Resonance	55 Hz ±5 Hz
Harmonic Distortion	Less than .5% above 75 Hz @ 1 watt
Useable Frequency Range	(low) 34 Hz, -8dB (high) 23 kHz, -3dB
Tweeter	1" ferrofluid-filled parabolic soft dome
Woofer	Dual 8" high ex- cursion aluminum coil form

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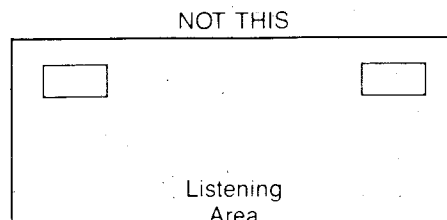
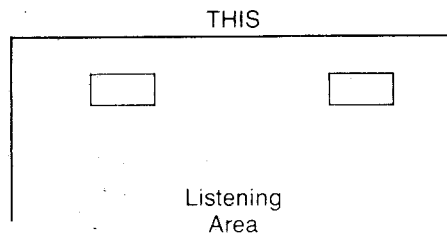
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