



**ACOUSTIC ENERGY**

# **100 SERIES**

**— OWNERS MANUAL —**

[www.acoustic-energy.co.uk](http://www.acoustic-energy.co.uk)



# Introduction

Congratulations on choosing the Acoustic Energy 100 Series, speakers designed to offer extremely high performance and technical ability.

The 100 Series has been engineered to offer neutral balance, low-distortion and high power handling with as little cabinet colouration as possible. Combined with wide output slot rear-porting, the 100 Series are extremely flexible loudspeakers for use in any room or position in the home.

Please take a little time to read through this manual and follow, as far as practical, the installation guidelines it contains. Careful installation will help ensure your 100 Series speakers perform optimally and offer many years of listening enjoyment.

Should you have any questions not covered here or need more in-depth set-up advice we are happy to try and answer your queries either by telephone or email. Contact information can be found on the back of this manual.

# Positioning

The 100 Series are very flexible with regard to positioning and are designed to work well wherever they are located within the listening environment. There are however some basic guidelines that should be followed (where possible) for optimum performance:

The tweeters (high frequency drivers, N/A to subwoofer) should ideally be at ear level when the listener is seated and for serious listening the grilles are best removed where practical. The 107 may require placement lower if used with a screen in typical A/V layout.

Rigid support is necessary for the speakers to deliver optimum dynamic response & detail, the 100's & 107 benefit from either good stands or a solid surface below them, the 109's, 120's & 108<sup>2</sup> should be used with their floor spikes where possible. Extra coupling can be achieved with standard mounting tack used to secure placement.

Room positioning: The 100 Series speakers are all "room-friendly" models and should be able to be placed where most convenient with minimal detriment to sound. Where possible a minimum of 6" (15cm) of space should be allowed between the speakers and boundary walls. Stereo models should be the same distance from each other as the listening position.

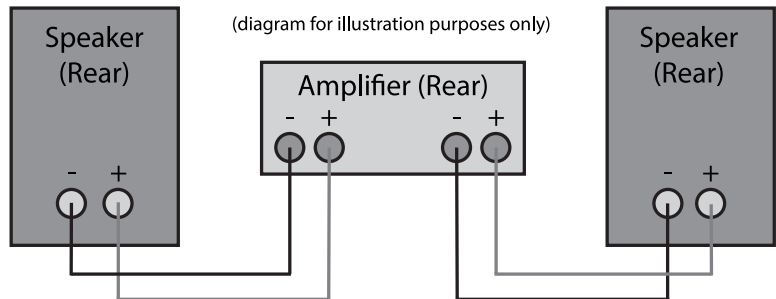
Experiment and listen to what works best for you, trust your own ears and judgement.

# Connections (100, 109 & 120\*)

Check that your amplifier is switched off before installing your loudspeakers. Failure to do so may result in speaker or amplifier damage.

The positive cable from the amplifier positive (or red) terminal should connect with the positive (red) terminal on the loudspeaker. Similarly the negative cable should connect the amplifier negative terminal (black) to the negative terminal (black) on the loudspeaker.

After wiring up, lower the volume to the minimum, switch on the amplifier, select the signal source and then raise the volume to the listening level required.



\*For 107 and 108<sup>2</sup> models please refer to amplifier instruction manual as many configurations are possible and will vary.

# Specifications

	AE100	AE109	AE120	AE107	AE108 <sup>2</sup>
Sensitivity <sup>1</sup>	87dB	89dB	90dB	90dB	N/A
Bandwidth <sup>2</sup>	45Hz-35kHz	40Hz-35kHz	Hz-35kHz	40Hz-35kHz	30Hz-110Hz
Horizontal Coverage <sup>3</sup>	120 degrees	120 degrees	120 degrees	50 degrees	360 degrees
Vertical Coverage	120 degrees	50 degrees	50 degrees	120 degrees	360 degrees
Peak SPL <sup>4</sup>	110dB	113dB	114dB	113dB	110dB <sup>7</sup>
Maximum SPL <sup>5</sup>	100dB	106dB	108dB	106dB	101dB <sup>7</sup>
Impedance	4 ohms	4 ohms	6 ohms	4 ohms	N/A
Power handling <sup>6</sup>	75W	150W	200W	150W	150W
Crossover Frequency	3.6kHz	2.3kHz	430Hz & 2.4kHz	2kHz	40-110Hz adjustable
Dimensions (HWD)	270x160x240mm	800x160x240mm	875x160x260mm	165x420x240mm	290mm <sup>3</sup>
Weight (Each)	4.5kg	16kg	17.5kg	7kg	8kg

1. Measured at 1m using pink-weighted MLS noise, referenced to 2.83V.
2. Measured at 1m using pink-weighted MLS noise, +/-6dB limits.
3. Measured at 1m using pink-weighted MLS noise, +/-6dB limits.
4. Measured using a toneburst signal with a 200W amplifier.
5. Measured using a band limited sine sweep using a 200W amplifier.
6. According to AES Standard ANSI S4.26-1984.
7. Measured in Half Space at 1m.

# Warranty

Your Acoustic Energy 100 Series loudspeakers are guaranteed against original defects in materials, manufacture and workmanship for 3 years (108<sup>2</sup> Subwoofer 2 years) from the date of Purchase. Please retain all original packaging materials for possible future use. **If you register your Acoustic Energy loudspeakers online via our website ([acoustic-energy.co.uk](http://acoustic-energy.co.uk)) we will extend your guarantee, free of charge, to five years (to 3 years for 108<sup>2</sup> Subwoofer).**

We suggest that you complete the details of purchase now and keep this information in a safe place for future reference.

Under this warranty Acoustic Energy agrees to repair any defect or, at the company's discretion, replace the faulty component(s) without charge for parts or labour. This warranty does not imply any acceptance by Acoustic Energy or its agents for consequential loss or damage and specifically excludes fair wear and tear, accident, misuse or unauthorised modification.

This warranty is applicable in the United Kingdom only and does not in any way limit the customer's legal rights. Claims and enquiries under the warranty for AE products purchased outside the UK should be addressed to the local importers or distributors.

If you have reason to claim under the warranty please contact your dealer in the first instance.

Dealer's name: .....

Date of purchase: .....

Serial numbers: .....

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