ACOUSTIC ENERGY

for the love of music

100 SERIES

OWNERS MANUAL

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-distrotion 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 adn answer your queries wither by telephone or email. Contact information can be found on the back of this manual.

Positioning

The 100 Series are very flexible with regards 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 when practical. The AE107^2 may require placement lower if used with a screen in a typical A/V layout.

Rigid support is necessary for the speakers to deliver optimum dynamic response and detail, the AE100^2 and AE107^2 benefit from either good stands or a solid surface below them. The AE109^2, AE120^2 and AE108^2 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 the boundary walls. Stereo models should be the same distance from each other as the listening position.

The AE105 can be mounted to a wall and can be positioned either vertically or horizontally. It is also suitable for mounting on a shelf or flush mounted in a bookcase. Optimum performance is achieved by mounting the AE105 vertically and listening below the tweeter axis. Due to the way it has been designed, mounting them high on a wall either side of a screen and listening from a seated position around 0.5m below the tweeter axis will produce a very even, balanced sound.

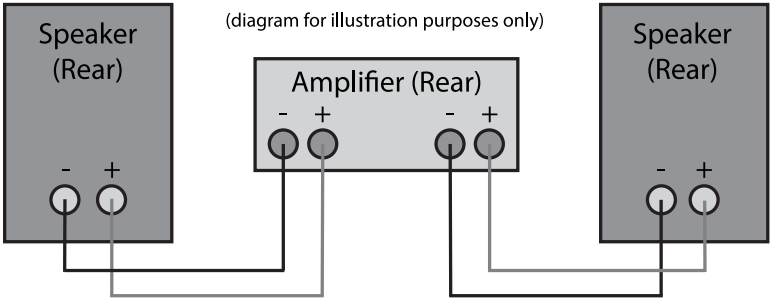
Experiment and listen to what works best for you, trust your own ears and judgement.

Connections (AE100², AE109², AE120² & AE105)

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

The positive cable from the amplifier positive (or red) terminal should connect to the (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 AE107² and AE108² models please refer to the amplifier instruction manual as many configurations are possible and will vary.

Specifications

	AE100[2]	AE109[2]	AE120[2]	AE107[2]	AE108[2]	AE105
Sensitivity[1]	87dB	89dB	89dB	89dB	-	91dB
Bandwidth[2]	51Hz - 26kHz	41Hz - 26kHz	39Hz - 26kHz	55Hz - 26kHz	-	35Hz - 26kHz
Peak SPL[3]	112dB	115dB	116dB	115dB	-	-
Power Handling[4]	120w	175w	200w	175w	150w	120w
Impedance	6ohms	6ohms	8ohms	6ohms	-	6ohms
Crossover-Frquesncy	2.9kHz	275Hz, 2.5kHz	300Hz, 2.7kHz	2.2kHz	40-110Hz adjustable	3kHz
Dimensions (mm, Hx-WxD)	290 x 165 x 250	860 x 165 x 250	950 x 165 x 250	175 x 380 x 250	290mm^3	450 x 200 x 120
Weight (each)	4.6Kg	16Kg	19Kg	4.6Kg	8Kg	4.7Kg

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 using a toneburst signal with a 200W amplifier.
4. Measured in Half Space at 1m.

Warranty

Your Acoustic Energy 100 Series loudspeakers are guaranteed against original defects in material, manufacture and workmanship for 3 years (AE108^2 subwoofer 2 years) from the date of purchase. Please retain all original packaging materials for possible future use. **UK Only: If you register your Acoustic Energy loudspeakers online via our website (acoustic-energy.co.uk) we will extend your guarantee, free of charge, to five years (to 3 years for AE108^2 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 accpetance by Acoustic Energy or its agents for consequential loss or damage and specifically excludes fair wear and tear, accident, misuse, or unauthorised modification.

The 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.

Dealers Name: .....

Date of Purchase: .....

Serial Numbers: .....

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