200 SERIES

Owner's manual

AE209



Introduction

Congratulations on choosing the Acoustic Energy AE209 - a powerful, floor-standing three-way loudspeaker which features all-metal diaphragm technology and is capable of outstanding performance.

Please take a few moments to read this manual. The advice it contains will enable you to get the very best performance out of your Acoustic Energy loudspeakers.

and Distributors. enhances detail and transparency. For exceptional results use also capable of being bi-wired or bi-amped for optimum sound quality system. In addition to conventional, passive driving, the AE209 is own separate enclosure which is reflex loaded by a high-power classic AE double port bass loading. The lower-bass driver has its AE UPOCC speaker cable which is available from AE Dealers loudspeakers use audiophile quality UPOCC internal wiring which and audiophile performance. All Acoustic Energy 200 Series high quality alloy dome unit matching the clarity of the rest of the flared port on the rear panel. The tweeter - or treble driver - is a The upper bass/mid-range driver has a damped alignment with the units to allow close positioning to a television for home cinema use. 200 Series loudspeakers feature fully magnetically shielded drive transparency, dynamics and power handling. All Acoustic Energy bonded voice coil. These features provide exceptional clarity, ensures pure piston action and also acts as a heat-sink for the proven in the AE Reference series. The rigid anodised alloy cone The AE209 utilises metal cone bass-mid drive unit technology,

AE209's are best heard with the tweeters at, or just below, ear height when the listener is seated. For serious listening the grilles are best removed.

Please unpack your AE209's carefully as each cabinet weighs over 20kg (44lb) and if necessary get someone to help you. Locate the plinths and fittings and, having carefully inverted the speaker, screw the plinth to the base of the cabinet using the screws and pilot holes provided. Please take extra care during this operation as the AE209 cabinet is factory fitted with mass-loading in the base and is therefore top-heavy when inverted. Please also ensure that you have tightly screwed the plinth to the cabinet, failure to do this will affect performance.

High tensile 8mm floor spikes and lock-nuts are provided for use with the plinth. These will guarantee the optimum coupling of the AE209 to the floor surface particularly in rooms fitted with carpet. The floor spike will penetrate the carpet and couple the speaker firmly to the floor structure below. The floor spikes (with lock-nut screwed down to the knurled part of the spike) should be fitted to the underside of the plinth while the speaker is still inverted. The speaker is now ready for installation. Any final adjustment of spikes to eliminate cabinet wobble can now be made using a spirit level if required. The lock nuts should be tightened when the final adjustments to cabinet position and alignment have been made.

Closeness to room boundaries has a major impact on the low frequency performance. The speakers should be kept away from corners (which will produce booming). The speakers can be positioned fairly close to a back or side wall but the distance away from that wall should not approximate to the height of the speaker.

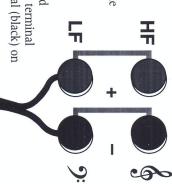
Experiment with the best position to achieve a full, yet clean bass response. Trust your judgement and ears. For best stereo imaging the speakers should be as far apart as they are from the listening position.

Connection

Check that your amplifier is switched off before installing your loudspeakers. Failure to do so may result in speaker or amplifier damage. The diagrams illustrate one loudspeaker only.

Conventional

Normal passive wiring requires shorting links to be in place between the treble and mid/bass sections. The positive (ribbed) cable from the amplifier positive (or red) terminal should connect with the positive (red) terminal on the loudspeaker. Similarly the negative (smooth) cable should connect the amplifier negative terminal (black) to the negative terminal (black) on the loudspeaker.



Bi-wiring

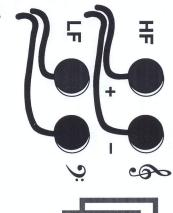
Bi-wiring separates the bass and treble gound paths in the loudspeaker and offers great sound quality advantages. An extra set of cables is required.

Note that the shorting links are removed between the treble and mid/bass sections and should be stored for later use if conventional, passive driving is required.

Two pairs of cables are connected to the amplifier terminals. One cable of each pair should connect to the HF or treble section and one to the LF or bass section. The positive (ribbed) cables from the amplifier positive (or red) terminal should

connect with the positive (red) terminals on the loudspeaker.

Similarly the negative (smooth) cables in each pair should connect the amplifier negative terminal (black) to the negative terminals (black) on the loadspeaker.



Bi-amping

Bi-amping adds a second amplifier to the system. One power amplifier drives the treble section of both loudspeakers; a second drives the mid/bass sections.

As regards the loudspeakers, wiring for bi-amping is achieved in much the same way as bi-wiring. Treble amplifier positive (red) terminal should be connected via the ribbed cable to the positive (red) HF terminal on the speaker. Similarly, treble amplifier negative is connected to the negative (black) HF terminal on the speaker. Repeat this process with the bass amplifer and LF terminal pair.

After wiring up

Lower the volume to minimum, switch on the amplifier, select the signal source and then raise the volume to the listening level required.

Specifications

HF Unit

diaphragm ferrofluid cooled and damped. 25mm aluminium alloy

Crossover

Magnetically shielded. a 32mm high-power voice coil. alloy cone thermally bonded to 130mm chassis with anodised

Power Handling

Frequency Response ± 3dB **Overall Frequency Response**

Sensitivity

Impedance

Cabinet

Terminals

Weight (excl.packaging)

Dimensions (WxHxD)

3 Way, 6 element @ 300Hz and Magnetically shielded.

MF/LF Units

200 watts maximum. UPOCC wiring to drive units. toroid inductor for bass. 3kHz high-power low distortion

35Hz-22kHz.

50Hz-20kHz 91dB/W/m.

6 ohms.

die-cast plinth. bracing, mass loading and throughout with full internal reflex enclosure. 18mm MDF resonance triple chamber bass Precision engineered low

Gold-plated 2-way binding posts bi-wired.

23Kg each

185 x 840 x 250mm

Warranty

possible future use. the date of purchase. Please retain all original packaging materials for defects in materials, manufacture and workmanship for 5 years from Your Acoustic Energy loudspeakers are guaranteed against original

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

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

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

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Serial numbers:..... Date of purchase:...

