

AESPRIT
300

Owner's manual

AESPRIT
300

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ACOUSTIC ENERGY

Introduction

Congratulations on choosing the Acoustic Energy AESPRIT 300, a powerful stand mount two-way loudspeaker which features 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.

The AESPRIT 300 utilises metal cone mid-bass drive unit technology, proven in the AE Reference series. The rigid anodised alloy cone ensures pure piston action and also acts as a heat sink for the bonded voice coil. These features provide exceptional clarity, transparency, dynamics and power handling. The units are housed within vented polymer chasis reducing stray magnetic flux to a minimum and increasing power handling.

The tweeter - or treble driver - is a high-quality neodymium unit with a silk fabric dome integrating smoothly with the rest of the system.

All drive units are fully magnetically shielded so that the speakers can be used in close proximity to a TV screen or monitor for AV applications.

The Acoustic Energy AESPRIT 300 loudspeaker uses quality OFC internal wiring, which enhances detail and transparency.

Positioning

The **AESPRIT** 300s 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.

Rigid support is essential for the speaker to develop its full detail and dynamic performance. Rigid stands with spikes, cones or other methods of secure mounting are recommended. 'Free-field' stand mounting gives improved stereo separation and depth. If **AESPRIT** 300s are shelf mounted the support must be firm; cones are still recommended beneath the cabinets.

Closeness to room boundaries has a major impact on the low frequency performances. 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 should not be the same distance off the ground as from the rear or side wall.

In the rear port of your AE300 you will find a foam bung. This has been supplied for tuning purposes to allow for differing room acoustics and positioning. Removal of this bung will give an increased bass output where required. 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 diagram illustrates 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 ground paths in the loudspeaker and offer 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 treble section and one to the mid/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 loudspeaker.

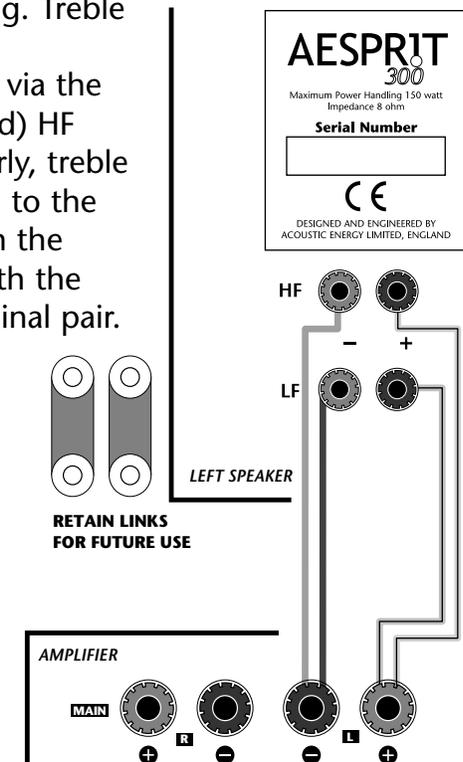
Bi-amping

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. **Note that the shorting links must be removed. Failure to do so will result in damaging the amplifiers.**

As regards the loudspeakers, wiring for bi-amping is achieved in much the same way as bi-wiring. Treble amplifier positive (red) terminals 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 mid/bass amplifier and LF terminal pair.

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.



Specifications

HF unit	Neodymium tweeter with high dispersion diaphragm. Ferro fluid cooled and damped. Magnetically shielded. Exclusively profiled.
LF unit	Pure piston 130 mm driver with 32 mm coil, polymer chassis, high power, long-throw magnet system and lightweight alloy cone. Magnetically shielded.
Crossover	@ 3.05 kHz, 3rd order LF, 2nd order HF
Power Handling	150W max (undistorted program drive)
Frequency response ±6dB	40Hz to 23kHz
Frequency response ±3dB	46Hz to 21kHz
Sensitivity	87.5 dB/W
Impedance	8 ohm (6 ohm minimum)
Cabinet	Real wood veneered. 15 mm MDF wrap. Full circumferential brace. High power, back firing, low turbulence bass reflex port. 30 mm MDF front baffle.
Terminals	Gold-plated 4-ways binding posts.
Weight (excl. packaging)	9 kg each
Dimensions (WxHxD)	210 x 396 x 305 mm

Warranty

Your Acoustic Energy loudspeakers are guaranteed against original defects in materials, manufacture and workmanship for 3 years from the date of purchase. Please retain all original packaging materials for possible future use. We suggest that you complete 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:.....

Address:.....

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Date of purchase:.....

Serial numbers:.....

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