





AMSTRAD

ACOUSTA RANGE
OF HIGH FIDELITY
LOUDSPEAKER SYSTEMS



THE AMSTRAD
ACOUSTA 2500



THE AMSTRAD
ACOUSTA 1500

Introducing the ACOSTA 1500 and ACOSTA 2500 High Fidelity Loudspeaker Systems.

These speakers have been designed by AMSTRAD engineers to give you true high fidelity reproduction combined with modern compact styling. They are suitable for both horizontal and vertical mounting, and have been designed for both floor standing and bookshelf mounting positions. The cabinets of both types of speaker system are task finished. They have precision milled metal front peripheral trim, which is brush grained to give an appearance not only pleasing to the eye but is also complimentary to the AMSTRAD range of high fidelity amplifiers.

The design of the front grilles is exclusive to AMSTRAD products. These grilles are produced using a new technique resulting in fronts with an eye-catching three dimensional finish that has excellent acoustic transmission properties. They are fastened to the cabinet baffles with zero resonance mountings.

Both the ACOSTA 1500 and the ACOSTA 2500 are two speaker systems, a bass unit and a treble/mid range unit being mounted in the same cabinet housing. A specially designed 4 element crossover unit is used to ensure each loudspeaker unit operates under conditions of minimum distortion, to give superb clarity of reproduction.

The loudspeaker units are front mounted into the cabinet baffles to reduce tunnelling effects. Three element air seals are used to ensure optimum performance of the system, and good power handling of the bass unit.

The treble/mid range units used in both the ACOSTA 1500 and the ACOSTA 2500 are 3" diameter types with a 14.2 mm voice coil diameter and a total flux of 17,650 Gauss. They are manufactured to international D.I.N. standards to ensure good sensitivity and high reliability. The ACOSTA 1500 system utilises a 6 1/2" long throw bass unit with a 39,600 Maxwell ceramic magnetic for low non-linear distortion. The voice coil is of 25.4 mm diameter wound on an aluminium former to ensure good power handling.

The ACOSTA 2500 system has an 8" long throw bass unit, with a 39,600 Maxwell ceramic magnet and aluminium voice coil former, and is designed to meet D.I.N. international standards to ensure excellent performance.

Connection to the loudspeakers is via the combination countersunk moulded assembly at the rear of the enclosure.

This connector design provides for insertion of a standard loudspeaker 2 pin D.I.N. plug and also, as an alternative, this connector will accept normal wander plugs. Whichever method of connection is used, the assembly design enables the speaker system to be used close to a wall in your room, as there are no projections proud of the cabinet rear face.

MATCHING LOUSPEAKERS TO YOUR AMPLIFIER

Both the ACOSTA 1800 and ACOSTA 2500 loudspeaker systems are of 8 ohms nominal impedance. They are suitable for connection to an amplifier designed for use with 8 ohm loads. They may also be used with an amplifier designed for 4 ohm loads, but there will be some reduction in the maximum power that the amplifier will deliver. 8 ohm loudspeakers of any type, including the ACOSTA range, should not be connected to amplifiers designed to feed loads of greater impedance than 8 ohms, as damage to the amplifier could result.

The ACOSTA 1500 loudspeaker system has a wattage rating of 15 watts R.M.S. It may be connected to an amplifier that has an output power of 15 watts per channel or less, for example the AMSTRAD INTEGRA 4000. Connecting to an amplifier with an output capability of greater than 15 watts R.M.S. will result in damage to the loudspeaker system.

The ACOSTA 2500 loudspeaker system has a wattage rating of 20 watts R.M.S. It may be connected to an amplifier that has an output of 20 watts per channel or less, for example the AMSTRAD I.C. 2000. Connecting the loudspeakers to an amplifier with an output capability of greater than 20 watts R.M.S. will result in damage to the loudspeaker system.

CONNECTION INSTRUCTIONS

When you remove your ACOSTA loudspeakers from the carton, you will find that the metal trim on the cabinets is protected by thin transparent plastic film. This film should be carefully peeled off, starting at the place where the two ends of the trim join at the bottom of the cabinet. Connection of the loudspeakers to your amplifier should be made as follows:

D.I.N. PLUG

The preferred cable termination at the loudspeaker end is a standard 2 pin D.I.N. speaker plug. This may be inserted directly into the D.I.N. socket at the rear of the speaker system. If you wire up your own D.I.N. plug, the amplifier signal output should be connected to the small round pin (No. 1) and the amplifier output earth should be connected to the large flat pin (No. 2). See Fig. 1. Take SPECIAL CARE to ensure no strands of wire are left free to short across the plug connections, as this could damage your amplifier.

WANDER PLUGS

An alternative connection to the speakers may be made via wander plugs. The red one should be connected to the amplifier output lead, and the black one connected to the amplifier output earth. Take SPECIAL CARE to ensure that no spare strands of wire are left outside the wander plug file entry points, as they may short out when the plugs are inserted into the speaker and this could damage your amplifier NEVER unplug, or plug in the wander plugs to your loudspeakers with the amplifier turned on. The red wander plug should be inserted into the socket marked — and the black wander plug should be inserted into the socket marked — at the rear of the loudspeaker cabinet.

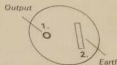
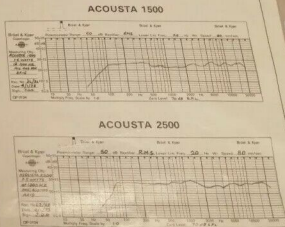


FIGURE 1:
2 PIN D.I.N.
SPEAKER PLUG

FIGURE 2:
FREQUENCY RESPONSES, MEASURED IN AN
ANECHOIC CHAMBER



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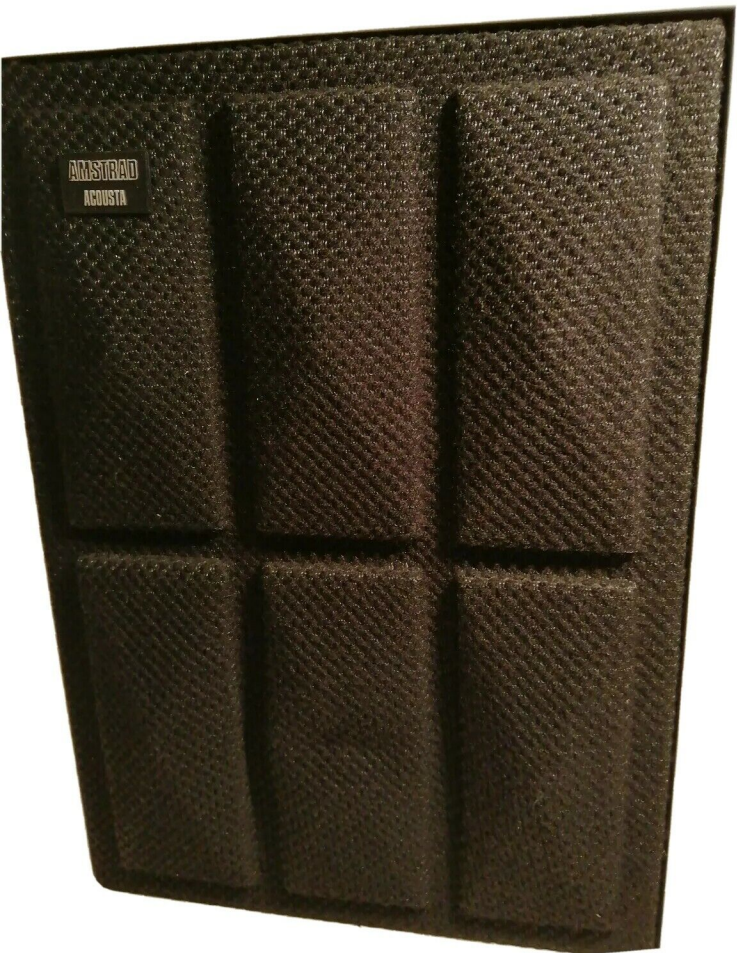
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POWER INPUT 15 WATTS

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