



Acoustic Mass Dampers for Krell Amplifiers





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Acoustic Mass Dampers are cone-shaped isolation feet designed expressly for the current and previous series of Krell amplifiers. These feet, termed AMDs, can be used with the following amplifiers: KSA-80, KSA-200, KMA-160, KMA-400; KST-100, KSA-150, KSA-250, MDA-300, MDA-500; KRS-100 and KRS-200.

The sonic benefits from isolation feet are not subtle, but the technical logic of their design often escapes the user.

THE PROBLEM

Energy generated from a variety of sources can cause sympathetic, microphonic vibrations in the subcomponents of amplifiers, such as transformers, transistors, and capacitors. The most common causes are footsteps and acoustic energy from the audio system itself. These sympathetic vibrations can reduce the predictable operation of various circuit parts and, in the process, substantially degrade the sonic performance of amplifier.

THE SOLUTION

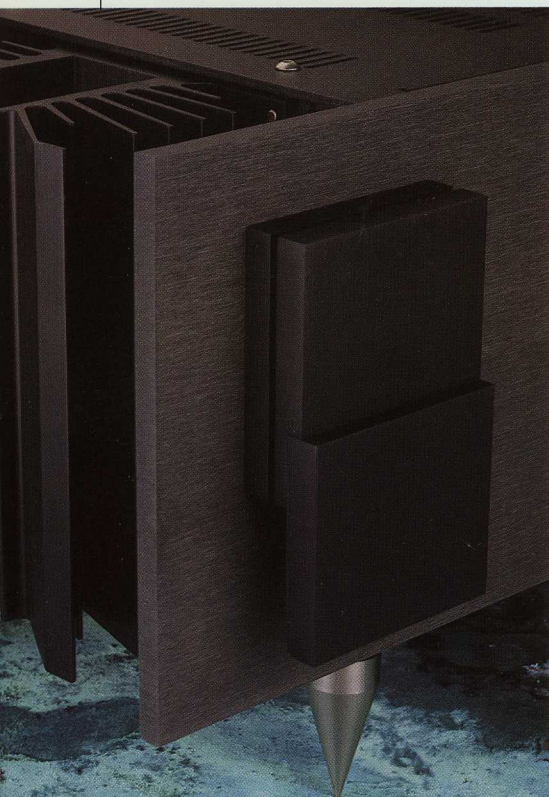
Proper chassis design is the first line of defense. Rigid construction and isolation of certain components from the chassis reduce the basic susceptibility of an amplifier to microphonic vibration. Krell amplifiers have no equal in this respect.

AMDs were developed to complete a virtually total isolation of Krell amplifiers from their environment. The AMD's cone shape has two characteristics vital to their performance. First is the concept of vibrational directionality. A cone naturally transmits energy from the wide surface towards the point, preventing energy from travelling in the reverse direction. This function funnels unwanted vibration away from the amplifier chassis.

The second consideration is mass coupling. By distributing weight through four points, rather than through four flat feet, contact pressure at those points is increased thousands of times. The effect is comparable to bolting the amplifier to a hard, massive surface.

AMDs thread into the existing Delrin amplifier feet until they contact an internal isolating washer fitted into each AMD. The purpose of the washer is to further decouple the amplifier from the environment without affecting the two properties described above.

Acoustic Mass Dampers are a logical addition to the ultra-rigid Krell amplifier chassis. Amplifiers fitted with AMDs will immediately present more dynamic impact, sound stage definition and transparency. They are the single most cost effective improvement available for your Krell-amplified system.



A cup at the top of the AMD holds in place an isolating washer that provides additional isolation by floating the weight of the amplifier.



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