

Installation Manual

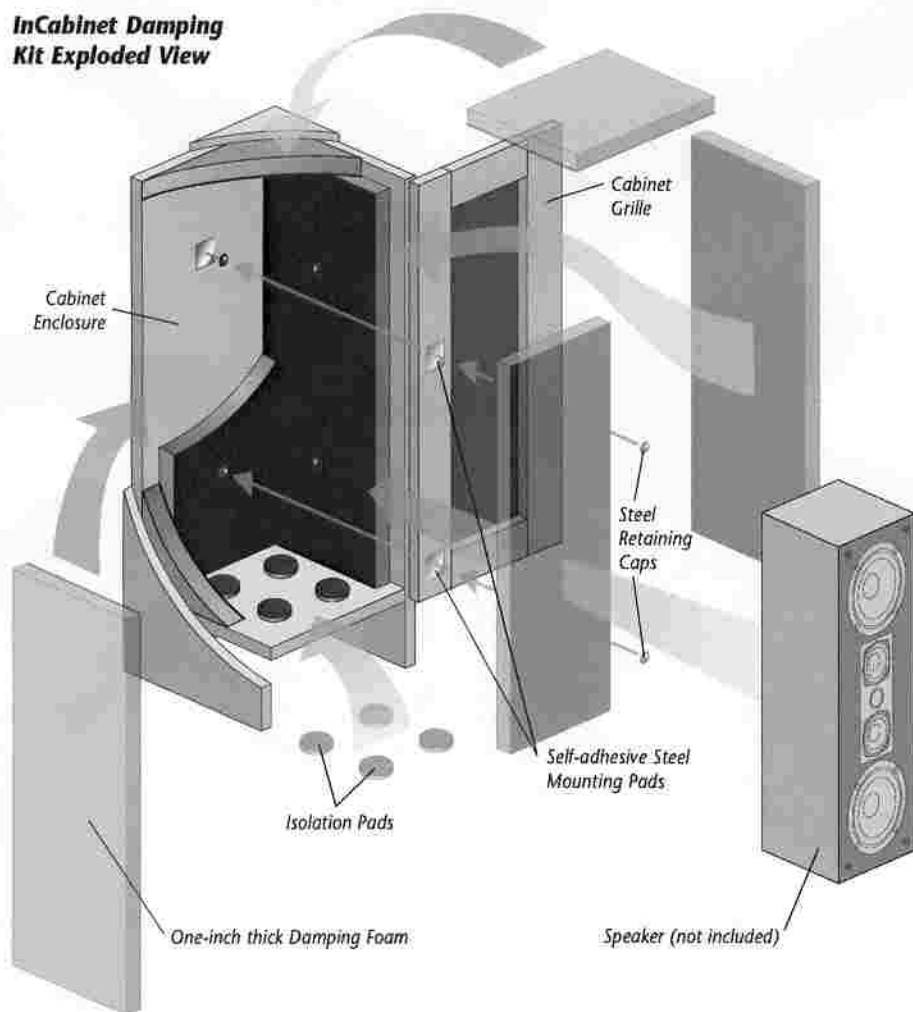
The Challenge: Loudspeakers make sound by creating pressure waves in the sea of air that surrounds us. As these pressure waves travel throughout the room they reflect off the various surfaces. The reflections combine with the initial pressure waves and our brains "hear" the resulting combination of waves as sound. But due to the multiple reflections the resulting combined waves sound different to us than the speaker's original sound. When you build a box type speaker into a wall unit or cabinet, some of the sound it makes is reflected from the nearby cabinet surfaces surrounding it and they too change the speaker's sound (in a negative way). Also there is concern about transmitting the speaker's vibration to the cabinet through direct contact as this can excite the wall unit into making sounds on its own.

The Solution: Atlantic Technology's InCabinet Sound Damping Kit has been specifically designed to reduce or eliminate the sonic

difficulties caused by these reflected pressure waves and vibrations within a cabinet speaker enclosure. The one-inch thick sheets are constructed of high-quality, open-cell, acoustically absorbant foam developed to significantly reduce mid to high frequency reflections. The applied black layer enhances lower frequency absorption. The combination foam and rubber pads help to isolate the speaker from the cabinet, reducing vibration and sound transmission. Made with self-adhesive backs for convenient application, foam mounting posts can be used to attach the damping sheets anywhere inside the cabinet.

There are two different Atlantic Technology damping kits, one designed for InWall speakers and one for enclosure speakers, that are going to be mounted "InCabinet." They consist of different materials and should be used only for their intended and stated purpose.

InCabinet Damping Kit Exploded View



InCabinet Kit Installation

The InCabinet Kit is intended to reduce the reflection of mid and high frequency sounds and reduce the transmission of vibration to the shelf when the speaker's placed in a cabinet.

The kit contains the following pieces:

- Two (2) 1-inch thick 24-inch by 54-inch sheets of open cell acoustical damping foam with a specially applied black film layer designed to enhance mid frequency absorption.
- Twelve (12) Self-adhesive steel mounting pads with posts attached to them. These are used to hold the 1-inch acoustic foam to the internal walls of the cabinet.
- Twelve (12) Steel retaining caps that push onto the above posts to keep the foam from sliding off the posts.
- Four (4) 1.5 inch round ultra-dense foam/rubber isolation pads intended to be placed underneath the loudspeaker in order to reduce transmission of vibration to the cabinet.

Please check the contents of the kit. If any part is missing or damaged, please contact Customer Service at (781) 762-6300.

