



2335 208th Street • Torrance, CA 90501 • Tel: 310-328-1306 • Fax: 310-328-0869
<http://www.rock-ola.com>

Technical Advisory

Date: 5/4/05

Product: All Jukebox Products

Document # 5097

Connecting Speaker Lines to BGM Inputs

Sometimes, a location may want to use a stereo receiver as a background music (BGM) source. This may be accomplished by using the “Line” or “Pre-Amp” outputs of the receiver and connecting to the BGM inputs of the Jukebox. These outputs are generally 1 to 1.5Vrms outputs and are compatible with the Jukebox.

Most low-end consumer products do not have these outputs. The “Tape” outputs are at 0.7Vrms or less and in many cases, will not be loud enough.

The low impedance speaker (4-8 Ohm) output of the receiver MUST NOT be connected directly for several reasons. The most important reason, is that the signal level can exceed 2Vrms and damage the pre-amplifier in the jukebox. Another is that many consumer receivers operate the speakers in a “bridge” configuration where the speaker lines are “floating” and not grounded. Connecting this type of output can damage both the receiver and the jukebox.

The solution is to use a signal converter. There are many products available that are designed to connect consumer and professional audio components together. The Isolating Line Output Converter will match the speaker outputs of a receiver to the BGM inputs of the Jukebox. The converter has a level control and solves the grounding issues. The cost is \$20.00 or less and they are available at most Pro-Audio supply companies or the following:

Circuit City www.circuitcity.com Part Number FLL0C600 (Usually in stock at stores)

Crutchfield www.crutchfield.com Part Number 101PL2

X10.com www.x10.com Part Number LOCF

Important: Rock-Ola Mfg. Corp. is providing this information as a courtesy and is in no way responsible for the installation and use of these devices nor the availability at the listed vendors. Follow the instructions that are provided with the receiver, converter, and jukebox for proper installation. It is recommended that the installation be performed by a qualified professional/commercial audio technician.