

**EPI**  
**Emergency Page Interrupter**

**Instructions**

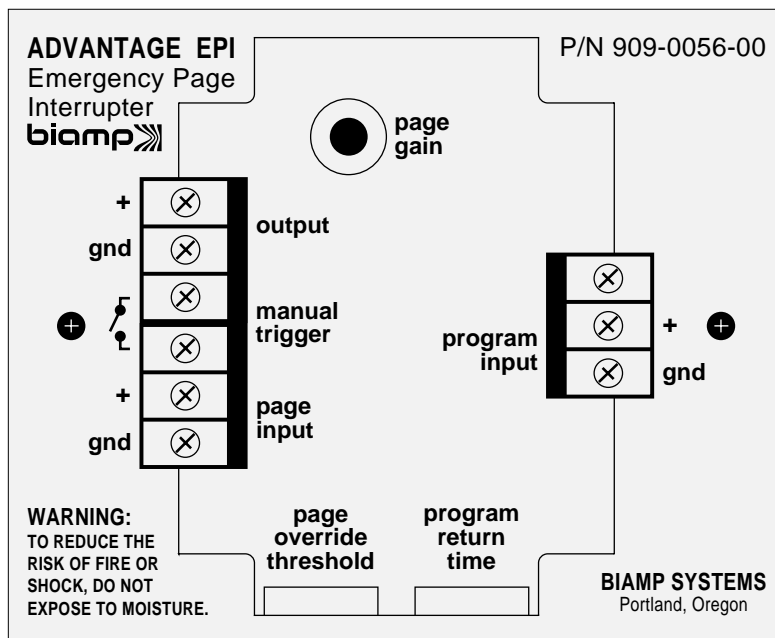
advantage ®

# EPI

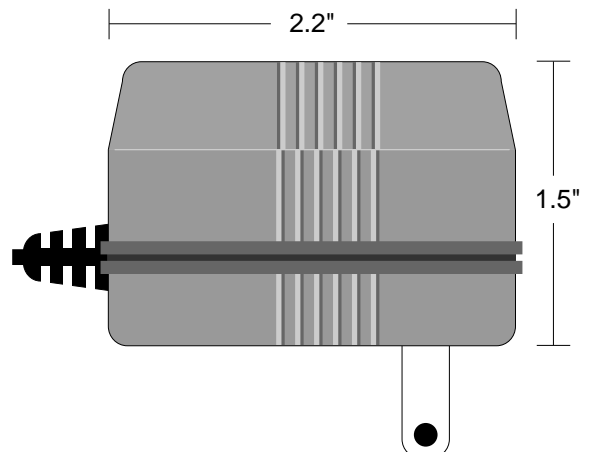
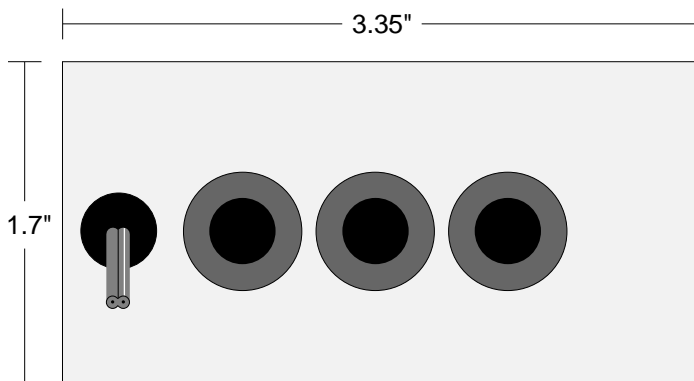
The EPI Emergency Page Interrupter (Biamp #909-0056-00) allows manual or automatic page-override of program signal. It accepts standard unbalanced line-level input from a program source, as well as unbalanced line-level input (up to 25V) from a paging source, and provides a standard unbalanced line-level output. The EPI uses FET gates for noiseless switching. It is designed for use with Advantage IWA and RPM Series powered mixers, but may be inserted into any system.

The EPI consists of a metal box (3.35" H x 4.1" W x 1.7" D), with an internal circuit board and an external power transformer. Screw terminals on the circuit board provide connections for the page input, program input, and output signals, as well as an external contact-closure (switch) for manual activation of the page-override function. Screwdriver-adjustable trim controls are also provided on the circuit board for adjustment of the automatic page-override sensitivity, the program return time, and the page input gain.

The EPI may be inserted anywhere between the source (mixer) and the output (amplifier) of a sound system. When used with the Advantage IWA or RPM Series powered mixers, the EPI is connected at the mixer Main (or Zone) patch point. The mixer Main/Zone Out terminal is connected to the EPI program input and the EPI output is connected to the mixer EQ In terminal. An external page source is then connected to the EPI page input. Likewise, the EPI may be connected at the main patch point of virtually any mixer.



4.1"



## EPI

To install the EPI, first remove the two screws from the front of the metal box. The front cover may now be removed, exposing the internal circuit board. With the sound system turned off, route cables through the front cover access holes and make the proper signal and contact-closure connections to the EPI (see diagram below). The Program Input, the Page Input, and the Output are all unbalanced line-level connections, wired with high to (+) and ground to (gnd). Program Input is from the normal signal source. This can be the output from a microphone mixer or a music source (CD, cassette, etc.). Page Input is from the paging signal source. This can be the output from a microphone preamp, a telephone system, or a distributed speaker line. Transformer isolation may be required for proper interface to telephone or distributed speaker systems. The EPI Output goes to the input of the sound system equalizer or amplifier.

When used with the Advantage IWA or RPM Series powered mixers, insert the EPI at the mixer Main (or Zone) patch point. Connect the mixer Main/Zone Out terminal to the EPI Program Input (+), and connect the EPI Output (+) to the mixer EQ In terminal. Connect the mixer Com terminal to either the EPI Program Input (gnd) or the EPI Output (gnd), but not both. Therefore, a simple 2-conductor shielded cable may be used for these connections. Also use this approach when connecting the EPI at the main patch point of other mixers, where send goes to EPI Program Input (+) and return goes to EPI Output (+), with a single common ground connection. Finally, connect an external page source to the EPI Page Input (line-level up to 25V).

For manual activation of page override, wire an external contact-closure across the Manual Trigger terminals of the EPI. This can be a push-to-talk switch, a relay, or even an 'open collector' logic output. Whenever manual triggering is used, Page Override Threshold should be set fully clockwise (maximum). Once all connections have been made, replace the EPI front cover (access holes are provided for adjusting controls). Turn the sound system on and set it for appropriate program and output levels. Then adjust Page Level for the desired 'page-to-program' level. Page Level is factory set fully counter-clockwise (off). If automatic page override is being activated by signal present at Page Input, adjust Page Override Threshold for desired sensitivity (not triggered by ambient noise). This control is factory set fully counter-clockwise (minimum). Program Return Time has a range of 0.8~5.0 seconds, and is factory set for 0.8 seconds (minimum).

