

# **P.I.P.-ATX**

*Programmable Input Processor*

## **OWNER'S MANUAL**

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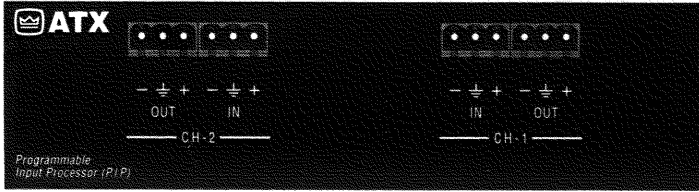


Fig. 1 The P.I.P.-ATX

## Welcome

Thank you for purchasing the Crown P.I.P.-ATX. *P.I.P.*<sup>®</sup> modules are designed to quickly plug into the back of Crown's premium amplifiers. *P.I.P.* stands for "Programmable Input Processor." *P.I.P.s* expand the capabilities of your amplifier and enable you to customize it for your particular needs.

ATX stands for AMC Theatre Cross(X)over. It is a custom two-channel crossover network with constant-directivity horn equalization that divides audio

signals to properly drive the triamplified sound systems at AMC movie theatres.

## Features

- ❑ 3-pin removable barrier block input and output connectors for each channel.
- ❑ Each channel's crossover can deliver low, middle or high frequencies independently to the corresponding amplifier channel and to the daisy-chain output connector on the *P.I.P.* module.

## Installation

Before installing the *P.I.P.* module, you should first configure it.

### ***P.I.P.* Configuration**

The P.I.P.-ATX has two jumper blocks for each channel on its circuit board. The "OUTPUT SELECT" jumper is used to select the frequencies that will be

output from the *P.I.P.* to the amplifier in which the *P.I.P.* is installed. The "DAISY SELECT" jumper is used to select the frequencies that will be sent to the output connector on the *P.I.P.*

Each channel is configured independently. Only one jumper should be installed on each

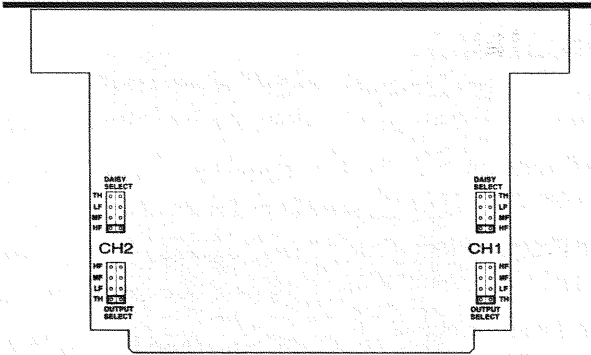


Fig. 2 P.I.P.-ATX Jumper Locations

jumper block. The jumper positions are labeled as follows: "HF" for high frequencies, "MF" for middle frequencies, "LF" for low frequencies and "TH" is for "through" which provides full bandwidth output. The actual output frequencies for each jumper position are listed in the specifications for the *P.I.P.*

**P.I.P. Installation**

1. Turn down the level controls (fully counterclockwise), turn off the amplifier, and unplug it from the AC mains power.
2. Remove the two screws that hold the existing *P.I.P.* module in place and pull straight out with firm pressure.
3. Align the edge of the P.I.P.-ATX circuit board with the *P.I.P.* card rails and firmly slide in the *P.I.P.* until

it is seated solidly in the amplifier.

4. Secure the P.I.P.-ATX with the two provided phillips screws and lock washers.
5. Connect the input and output wiring as required for your application. For help, refer to the balanced and unbalanced input wiring instructions provided in your amplifier's *Owner's Manual*.
6. Plug in the amplifier and turn it on. Adjust its level controls to a desired setting.

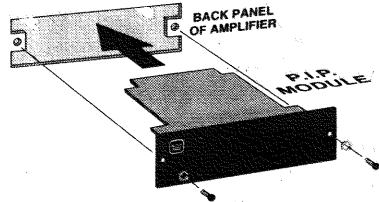


Fig. 3 Installing a P.I.P.

## Specifications

*Note: All specifications are referenced to a 0.775 volt input signal.*

**Low-Pass Frequency:** -6 dB at 160 Hz (24 dB/octave).

**Band-Pass Frequencies:** -3 dB at 36 and 2200 Hz (6 dB/octave).

**High-Pass Frequency:** -6 dB at 800 Hz (24 dB/octave).

**Constant Directivity Horn EQ:** +3 dB at 4 kHz.

**Signal to Noise:** Greater than 90 dB from 20 Hz to 20 kHz.

**Frequency Response:**  $\pm 0.1$  dB from 20 Hz to 20 kHz.

**Harmonic Distortion (THD):** Less than 0.05% THD at 1 kHz with a +10 dBu input signal.

**Common Mode Rejection:** Greater than 90 dB at 60 Hz.

**Crosstalk:** Less than 90 dB at 1 kHz.

**Connectors:** 3-pin (Phoenix®) removable screw terminals.

**Input Impedance:** Nominally 50 K ohms balanced. 25 K ohms unbalanced.

**Maximum Input Level:** +20 dBu.

**Maximum Output Level:** +20 dBu into 600 ohms.

**Nominal Gain:** Unity  $\pm 0.5$  dB.

**Dimensions:** 6  $\frac{3}{8}$  inch width, 1  $\frac{7}{8}$  inch height, and 3  $\frac{7}{8}$  inch depth (16.2 x 4.8 x 9.8 cm).