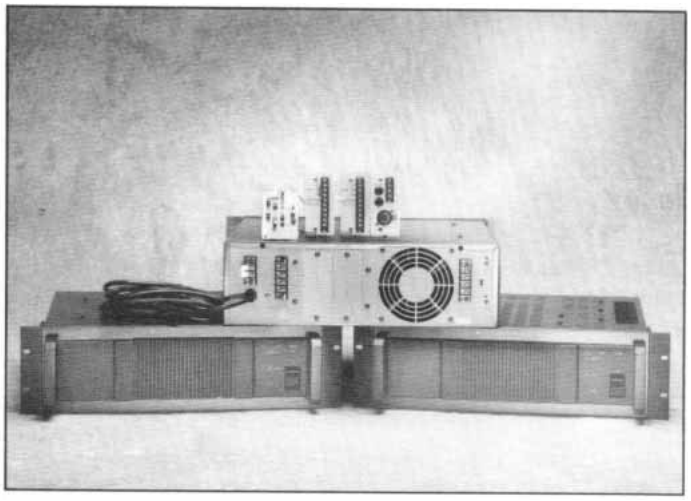
PRODUCT OVERVIEW

LB-101X & LB-101X-C

Line Balancing Input Modules For P-1000 Series Amplifiers



FEATURES:

- Balanced inputs using XLR, 1/4" tip/ring/sleeve (TRS), or screw terminals.
- Electronically buffered insert (send/return) jack, 1/4" TRS.
- Reversible XLR input polarity.
- LB-101X-C module incorporates a 10:1 compressor circuit for speaker protection.
- Easy to install, tamper-proof design.
- Economical and versatile way to increase system reliability and flexibility.
- Suggested dealer net: $89 (LB-101X) and $98 (LB-101X-C).

DESCRIPTION:

TOA's LB-101X and LB-101X-C are single channel, plug-in input modules for use with P-1000 Series dual channel power amplifiers. Using the three most popular connectors — XLR, 1/4" TRS and screw terminal — the modules provide balanced connections. Because the connectors are paralleled, unused connectors can provide convenient "loop through" connections.

The unique insert jack can be used several ways for better signal interfaces in an amplifier rack. It can be used to connect a signal processor, particularly unbalanced processors in remotely located amplifier racks. Instead of the unbalanced processor's input, the signal can be fed directly to the balanced LB-101X or LB-101X-C input. The signal processor is inserted in the signal path using the module's insert jack. This jack can also serve as a buffered output for slave amplifiers or other equipment, eliminating the need for additional external balancing transformers. It is also a very convenient jack for testing and troubleshooting a system without disturbing any equipment connections.

The polarity of the XLR connector on either module easily can be changed by an internal jumper cable to make either Pin 2 or 3 "hot". This allows the system designer considerable flexibility in matching TOA's P-1000 Series power amplifiers to other equipment already in the system.

The LB-101X-C incorporates a 10:1 compressor circuit that limits the input signal from driving the amplifier into unwanted clipping. Since the compressor sensing circuit is taken directly from the amplifier output, the compression threshold is unaffected by setting the amplifier's input controls.

SPECIFICATIONS:

0 dB = 0.775 V RMS

Input – Sensitivity: Impedance:	+4 dB (max. +20 dB) 10 k Electronically Balanced
Insert Send – Level: Load:	+4 dB (max. +20 dB) Unbalanced >2 k ohm
Insert Return – Sensitivity: Impedance:	+4 dB (max. +20 dB) 10 k Unbalanced
Distortion:	0.05% 1 kHz / +4 dB
Noise Level:	Below -90 dB (20 Hz — 20 kHz unweighted)
Compression (LB-101X-C):	Fixed 10:1 — Auto-adjusts to any P-1000 model
Power Requirements:	±15 V 12 mA (24 mA LB-101X-C) — Supplied by a
Dimensions:	4.2" H x 1.8" W x 3.8" D