

AUDIO DISTRIBUTION AMPLIFIERS

FEATURES

- Electronic or Transformer Balanced Input(s).
- Electronic or Transformer Balanced Outputs.



- Adjustable Input Level(s).
- Individually Adjustable Output Levels.
- Designed For Maximum Reliability and Minimum Space.
- External UL Listed Power Transformer For Lowest Possible Noise.

www.protechaudio.com

The Toolbox Series Audio Distribution Amplifiers are designed to provide the system designer, and audio contractor, with a family of high-reliability, cost-effective devices for distributing audio in professional applications. The audio distribution amplifiers are designed for applications requiring that a single audio source be distributed to multiple locations.

The Models 5117 and 5117T are 1 input, 7 output distribution amplifiers. The Models 5217 and 5217T are dual 1 input, 7 output devices. The inputs may be strapped on the dual versions, to create 1 input by 14 output circuits. The "T" versions are transformer isolated on both input and outputs.

The Models 5126 and 5126T are 2 input, 6 output distribution amplifiers. Inputs are assignable to individual outputs. The Models 5226 and 5226T are dual 2 input, 6 output devices.

The gain of each output is individually adjustable. The inputs on all units may also be adjusted. Each input and output section incorporates separate op-amp circuitry. This circuit design prevents any interaction between channels when level adjustments are made.

Actual installations include such facilities as factories, convention centers, racetracks, arenas, corporate communication centers, airports, mass transit systems, and broadcast centers.

Each of the 8 models requires only a single rack space. The choice of single or dual units provides extreme circuit density in a minimum of rack space.

Every circuit in the Toolbox Series has been meticulously engineered, to achieve maximum reliability. The power supply section of all Tool Box Series audio devices, incorporates a UL approved wall-mount transformer. By mounting the AC power transformer outside of the audio chassis, the Toolbox Series audio devices achieve the lowest possible hum specification. Fusing is accomplished thru the use of a standard, easily available 3AG size Slo-Blo fuse, with the fuseholder mounted on the rear of the chassis. A ground lift switch is mounted on the rear of the chassis, to provide additional installation flexibility.

For additional information or applications assistance contact:

[SALES ENGINEERING](#)

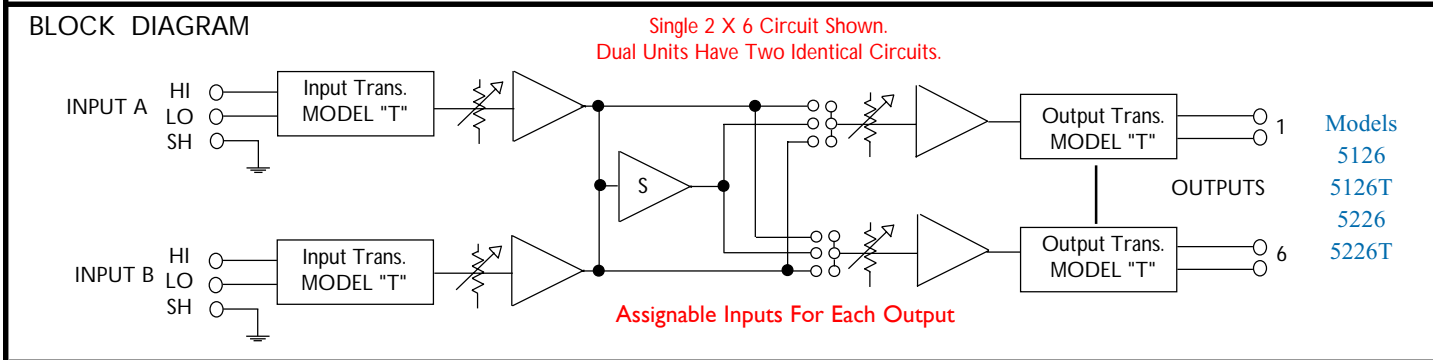
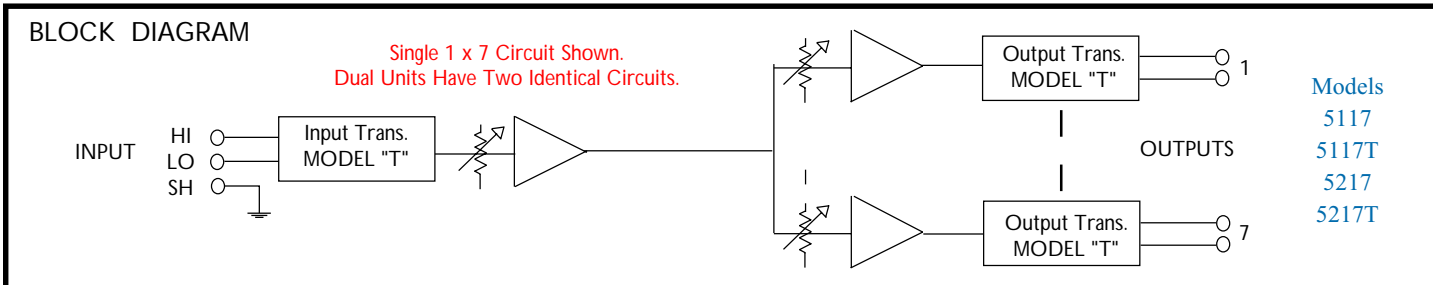
TOOLBOX SERIES

PROTECH®

Engineering Data

1/06

AUDIO DISTRIBUTION AMPLIFIERS



Specifications

GAIN.....	Input 1 = 0 - 20dB, Adjustable Input 2 = ±15dB, Adjustable Output = Infinity to +20dB, Adjustable
MAXIMUM INPUT LEVEL.....	+15dB
INPUT IMPEDANCE.....	Electronic Balanced Bridging, 15K Transformer Balanced Bridging, 10K
MAXIMUM OUTPUT.....	+20dBm
FREQUENCY RESPONSE.....	+0, -1dB, 20Hz To 20KHz
DISTORTION.....	0.1% Maximum @ +15dBm Out, & 15dB of Gain
NOISE.....	-82dB Below +4dBm Out, and 15dB of Gain
POWER REQUIREMENTS.....	117VAC @ 0.5 Amp.
SIZE.....	1.75" x 19" x 10"
OPERATING TEMPERATURE.....	-20 To +75 Degrees C

Architect's & Engineer's Specifications

The audio distribution amplifier shall contain (1 or 2) (1 input by 7 output, or 2 input by 6 output) audio circuits.

The input(s) shall be (electronically or transformer) balanced, bridging type. Each input section shall contain RFI protection circuitry. The gain of the input(s) shall be adjustable via gain pot(s) mounted on the front panel.

The outputs shall be (electronically or transformer) balanced floating type, capable of driving 600 ohm impedance lines to a +20dB level. The gain of each output shall be individually adjustable. Adjustment of any output gain level shall not effect the output level of any other output section.

The audio distribution amplifier shall be constructed in an all steel chassis set, to facilitate shielding. The ADA shall mount in standard 19" EIA racks, without the need for additional mounting brackets, and require no more than 1.75" of vertical rack space. The ADA shall have a ground lift switch accessible only from the rear of the chassis set. The ADA shall not contain an ON/Off switch.

The ADA shall have an external, UL Listed wall mount power transformer. The fusing of the power supply section shall be via a standard 3AG type fuse, contained in a fuse holder accessible only from the rear of the chassis.

The audio distribution amplifier shall be Protech Audio Corporation Model 5117, 5117T, 5217, 5217T, 5126, 5126T, 5226, 5226T

Accessories

Automatic Level Control.....MODEL 65306
Senses ambient noise in paging area, & automatically adjusts paging levels. Incorporates 4 input/prioritized mixer, 2:1 compressor circuit, and a peak limiter circuit.

Mixers.....MODELS 5171, 5162, 5271, 5262
Allow mixing of microphone and line level signals to common outputs. Models 5171 and 5271 are 7 in by 1 out and dual 7 in by 1 out. Models 5162 and 5262 are 6 in by 2 out and dual 6 in by 2 out.

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AUTHORIZED DEALER