

## Product Data

- **40 watt output**
- **Three paging inputs with selectable Hi or Lo impedance**
- **One music input with two input jacks**
- **Voice-activated or manual page-over-music mute**
- **Outputs provide for 4 ohm, 8 ohm, 25V and 70.7V speaker lines**
- **Separate Bass and Treble controls**
- **Push-to-Reset internal circuit breaker**

### Specifications:

#### Frequency Response:

Power Amp: 50 Hz–15 kHz,  $\pm 2$  dB  
 Mic Input: 150 Hz–14 kHz,  $\pm 2$  dB  
 Music Input: 50 Hz–15 kHz,  $\pm 2$  dB

#### Tone Controls:

Bass:  $\pm 12$ dB @ 50Hz  
 Treble:  $\pm 12$ dB @ 15kHz

**Power Output:** 40 watts RMS

**THD @ Rated Output:** <1.0% @ 1kHz

#### Signal to Noise Ratio:

Mic: 65dB  
 Music: 68dB  
 Aux: 70dB  
 Power Amp: 88dB

**Speaker Output:** 4 $\Omega$ , 8 $\Omega$ , 25V, 70.7V

**Dimensions:** 13.5" W x 3.625" H x  
 10.875" D  
 (34.3 cm x 9.2 cm  
 x 27.6 cm)

**Shipping Weight:** 14 lbs. (6.4 kg)

## Description

The Model 1800-10 is a 40 watt monaural solid state mixer amplifier. This versatile unit is designed for dependable continuous operation in background music, public address, paging and sound reinforcement systems.

The 1800-40 can mix up to four inputs, consisting of three microphone inputs and one music input. The three microphone inputs are low impedance balanced. Alternate inputs on these microphone channels are provided as follows: MIC-1 may be changed to a balanced line level input by means of a switch on the back panel. MIC-2 and MIC-3 will provide high impedance unbalanced inputs by using an alternate input jack. MIC-3 channel may be used as an Auxiliary input by means of a selector switch on the front panel.

The MUSIC channel has two input sources which are switch-selectable on the front panel. This channel features a MUSIC MUTE circuit which may be used to fade out the music when paging. The muting circuit can be automatically (voice-activated) or manually activated.

Power output connections are made with screw terminals on the back panel. The connections include 4 and 8 ohm terminals as well as 25 and 70 Volt terminals for speaker distribution systems.

The unit is housed in a sturdy steel chassis which may be rack mounted with the MODEL RPK-2 optional rack mounting kit. The unit operates from a standard 120 Volt AC 60Hz power source and is protected by a Push-to-Reset circuit breaker.

## Architect's and Engineer's Specifications

The mixer/amplifier shall have three paging inputs that are selectable either high or low impedance. The unit shall be capable of mixing three microphone inputs and one music input. The music channel shall have two input sources which are switch selectable on the front panel. This channel shall also feature a music mute function that may be used to fade out the music when paging. The muting circuit shall be capable of being either automatically or manually activated.

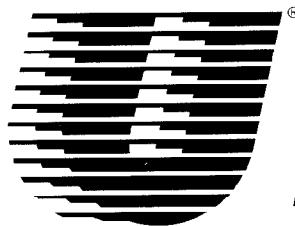
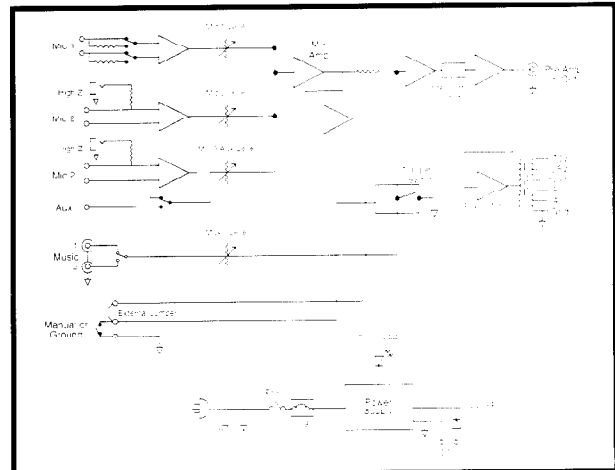
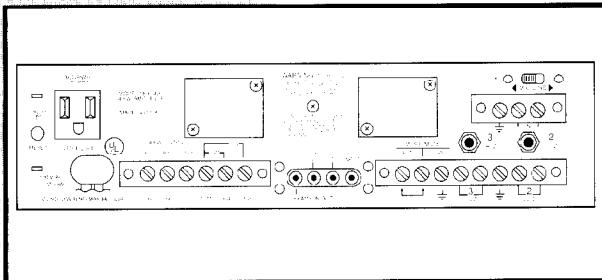
The output power shall be 40 watts RMS. Total har-

monic distortion shall be  $< 1.0\%$  @ 1kHz. The frequency response of the power amplifier shall be within  $\pm 2$  dB from 50 Hz to 15 kHz. Power output shall be available at eight ohms, four ohms, 25V and 70.7V impedances.

The unit shall measure 13.5" x 3.625" x 10.875" (34.3 cm x 9.2 cm x 27.6 cm), weigh 14 lbs. (6.4 kg) and shall operate from a 120V, 50/60Hz AC line.

The amplifier shall be the University Sound Model 1800-40.

## Rear Panel View/ Block Diagram



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