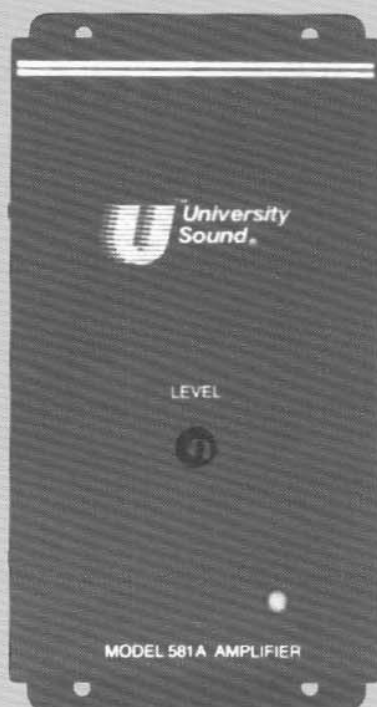




580A Series

Utility Amplifiers

Models 581A, 582A, 583A



Product Data

- 8 watts into 4 ohms, or 5 watts into 8 ohms RMS output
- Small compact design for surface or wall mounting
- 120 Volts AC or 24V DC operation
- Three input configurations:
 - 581A: Hi-Z aux level unbalanced
 - 582A: 10k or 1k transformer balanced
 - 583A: Lo-Z microphone balanced

Specifications:

Power Output:

Into 8 Ω load: 5 watts

Into 4 Ω load: 8 watts

Distortion:

Into 8 Ω load: 0.25% THD

Into 4 Ω load: 0.3% THD

Frequency Response:

581: 50 Hz to 15 kHz $\pm$ 1 dB

582: 85 Hz to 15 kHz $\pm$ 1 dB

583: 60 Hz to 12 kHz $\pm$ 1 dB

Input Sensitivity:

581: 50 mV

582: 50 mV

583: 0.5 mV

Input Impedance:

581: 47K Ω

582: 10K/1K Ω select

583: lo-Z: 200 Ω

Signal-to-Noise:

581: -75 dB

582: -70 dB

583: -56 dB

Output Impedance: 3.2 Ω - 8 Ω

Power Consumption: 24 volts DC @ 400 mA

Dimensions: 1.25" x 3.0" x 6.125"

(3.2 cm x 7.6 cm x 15.6 cm)

Shipping Weight: 3 lbs. (1.4 kg)

Description

The Models 581A, 582A, and 583A are compact wall mounted single input utility amplifiers useful in a variety of paging and music applications. Each unit has a power output of 8 watts RMS when used with a 4 ohm speaker load, or 5 watts RMS with an 8 ohm speaker load.

Other than input configuration, the models are identical. Model 581A has a high impedance (47K ohms) unbalanced input. The Model 582A input is transformer isolated with a selectable input impedance of 10K ohms or 1K ohm. Both units have a maximum input sensitivity of 50 mV at full power output. The Model 583A has an input for a Lo-Z balanced microphone. Input sensitivity for full power output is 0.5 millivolts at the low impedance input.

The Model 581A is ideal for small offices or other areas where the output from a tuner, tape deck, or other high impedance source needs only moderate amplification. The Model 582A is useful where a 500 ohm line is distributed

throughout a building, and horns need to be placed at various points along this line. With the 582A, the need for self-amplified horns is eliminated, and with its 10K ohm input, as many as 20 units may be used on a 500 ohm line. The mic input on the Model 583A makes it perfect for simple public address systems, such as a "chef's call" at a fast food restaurant. With this system, the electronics can be mounted out of the way of food spillage.

A single control is provided on the face of the unit to adjust the output level. Each unit is housed in a painted sturdy steel box measuring only 1.25" x 3.0" x 6.125" (3.2 cm x 7.6 cm x 15.6 cm), that can be mounted to most surfaces using #6 screws in the mounting flanges of the box.

The units may be powered from a 120V AC 60 Hz line voltage (wall outlet power adapter provided), or from an external 24V DC power source where A.C. line voltage is unavailable.

Architect's Engineer's and Consultant's Specifications

The amplifier shall have an output power of 8 watts RMS into 4 ohms and 5 watts RMS into 8 ohms. The input section shall be in one of three configurations: a 47K ohms unbalanced impedance, a selectable 10K/1K ohm impedance that is transformer isolated, or a Lo-Z microphone input (balanced). The first two configurations shall have a maximum input sensitivity of 50 mV at full power output. The third configuration shall have a maximum sensitivity at full power of 0.5 mV for the low impedance input.

There shall be a single control on the face of the unit to adjust the output level. The unit shall measure 1.25" x 3.0" x 6.125" (3.2 cm x 7.6 cm x 15.6 cm), and shall operate from a 120V AC 60 Hz line or an external 24V DC source.

The amplifier shall be the University Sound Model 581A (Hi-Z unbalanced), 582A (10K/1K transformer balanced), or 583A (Lo-Z microphone balanced).

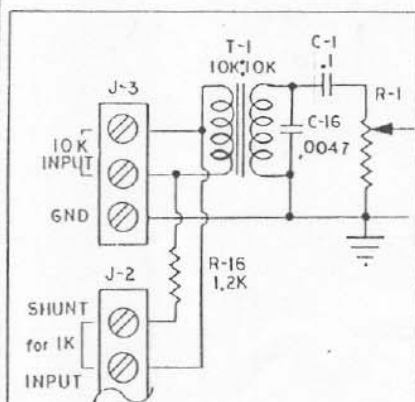


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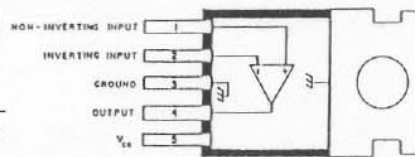
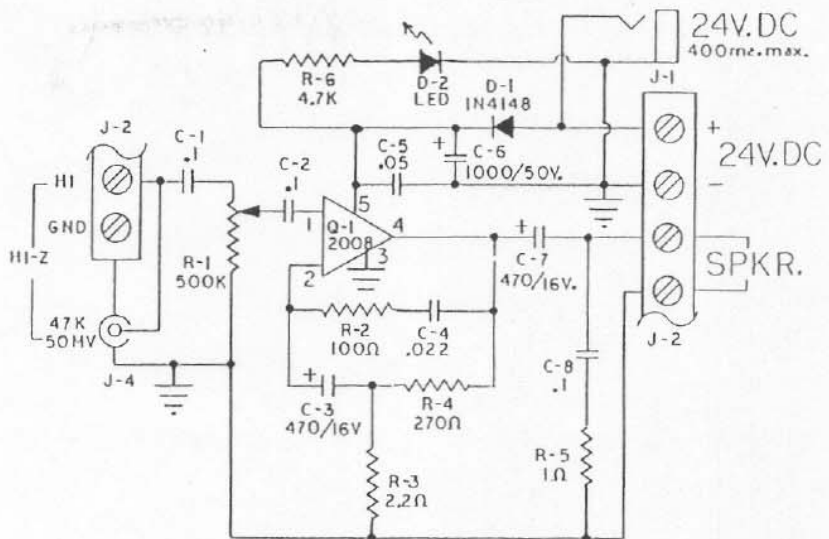
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NOTE: PARTS AND CIRCUIT SUBJECT TO CHANGE FOR IMPROVEMENT WITHOUT PRIOR NOTICE



ALTERNATE INPUT
CIRCUIT USED ON
MODEL 582

— UNLESS OTHERWISE INDICATED —
RESISTOR VALUES SHOWN IN OHMS
CAPACITOR VALUES SHOWN IN MF.

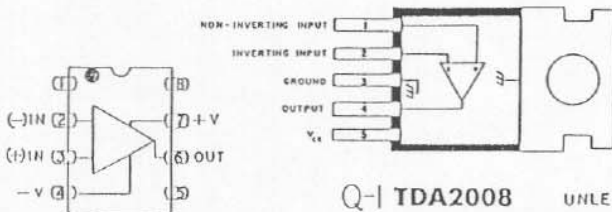
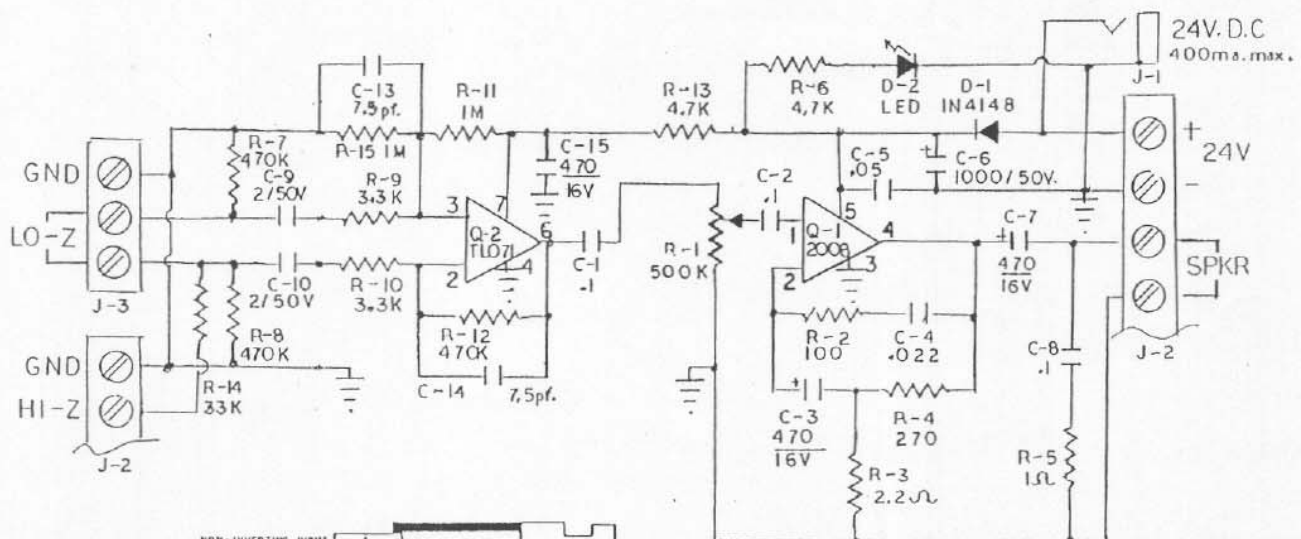


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University Sound

581 & 582

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UNLESS OTHERWISE INDICATED
RESISTOR VALUES SHOWN IN OHMS
CAPACITOR VALUES SHOWN IN MF.

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583