ALTEC LANSING®

1592A MIXER/AMPLIFIER

OPERATING INSTRUCTIONS

Figure 1. 1592A Mixer/Amplifier

SPECIFICATIONS

Type:	Mixer-Amplifier
Gain:	87 dB with 1578A or 1588A Plug-In Microphone Preamp. 40 dB with 15095 Plug-In Transformer, bridging 600 ohm line.
Frequency Response:	±1 dB, 20-20,000 Hz.
Power Output:	+21 dBm at less than 1% THD +18 dBm at less than 0.5% THD, 30-20,000 Hz.
Monitor Output:	6 dB below amplifier output, into 600 ohm load with Monitor-Control full on.
Source Impedance:	150/250 ohm nominal with 1588A Preamplifier (balanced input). 150 to 20,000 ohm with 1578A Preamplifier (unbalanced input). Up to 50,000 ohm with 1579A equalized (phono) amplifier. 600 to 15,000 ohm with 15095 Transformer (balanced).
Load Impedance:	150 and 600 ohm (transformer isolated output).
Noise Level:	-120 dBm equiv. input noise: Output noise with master gain-control closed: 80 dB below full output.
Controls:	5 Mixer, 1 Master, 1 Bass, 1 Treble, 1 Monitor-Volume; Dialog equalizer switch for each input (-6 dB at 100 Hz); Articulation equalizer switch for output (+3 dB at 5 KHz); VU Meter Range Switch; Test-Tone off-on switch; Tone-Control in-out switch; Power switch controlling ac or dc power source.
Input Connectors:	5 Cannon XLR 3-13 Receptacles.
Power Supply:	120/240V ac 50/60 Hz 10W; or 12V dc @ 0.16A or 24V dc @ 0.17A (Battery (-) is ground).
Dimensions:	5-1/4" H x 19" W x 5-1/4" D
Color:	Dark Green
Weight:	12 lbs.
Accessories:	1588A Plug-In Transformer Isolated Input Preamplifier (Microphone). 1578A Plug-In Preamplifier (Microphone). 1579A Plug-In Equalized Amplifier for magnetic phono pickup. 15095 Plug-In Transformer (high-level balanced line bridging input). 15356 Plug-In Transformer, matched input. 41222 VU Meter. 12866 Portable Carry-Case.

Specifications and components subject to change without notice. Overall performance will be maintained or improved.

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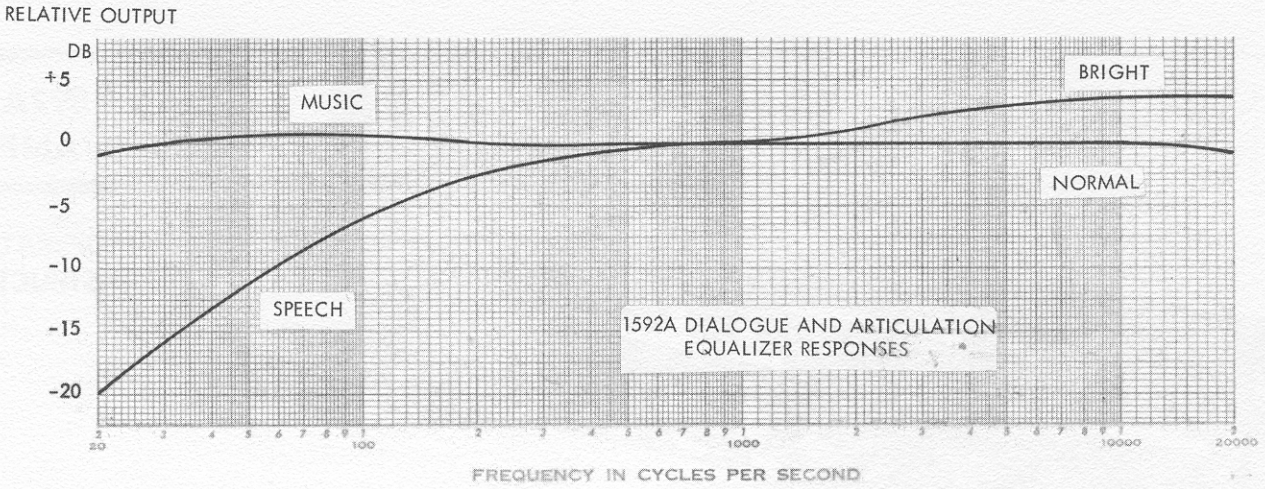

Figure 2

DESCRIPTION

The ALTEC 1592A is an all Solid-State Mixer Amplifier having FIVE INDEPENDENT INPUTS, any of which may be used for low or high impedance microphones, magnetic phonograph pickups or high-level sources. Plug-in accessories available provide for impedance matching, preamplification, or equalization. Each input is equipped with a Speech/Music switch, in conjunction with its Mixer Control, to allow dialog equalization. A Normal/Bright switch, associated with the Master Gain Control, gives a rise in response in the 3 to 5 KHz region, for articulation enhancement. Response curves illustrating the performance of the 1592A when using these controls is shown in Figure 2. The 1592A provides a smooth frequency response at less than 1% total harmonic distortion, 20 to 20,000 Hz, less than 0.5% THD, 30 to 20,000 Hz. (See Figure 3). Power outputs are +21 dBm (at less than 1% THD) and +18 dBm (at less than 0.5% THD). Gain is 87 dB with the 1588A plug-in microphone preamplifier; 44 dB with a 15095 plug-in transformer bridging a 600 Ω line (see Input Connection descriptions). Bass and treble tone controls are provided with their functions illustrated in Figure 4.

Power for the 1592A can be derived from 120V or 240V 50/60 Hz ac lines, or from 12/14V or 24/28V dc sources. The change of battery source voltage i.e., 12/14 to 24/28V is accomplished with a rear-panel slide-switch, equipped with a locking plate (Figure 5). When ac and battery power are both connected, the amplifier operates from the ac source and automatic transfer to battery power is achieved if the ac source fails.

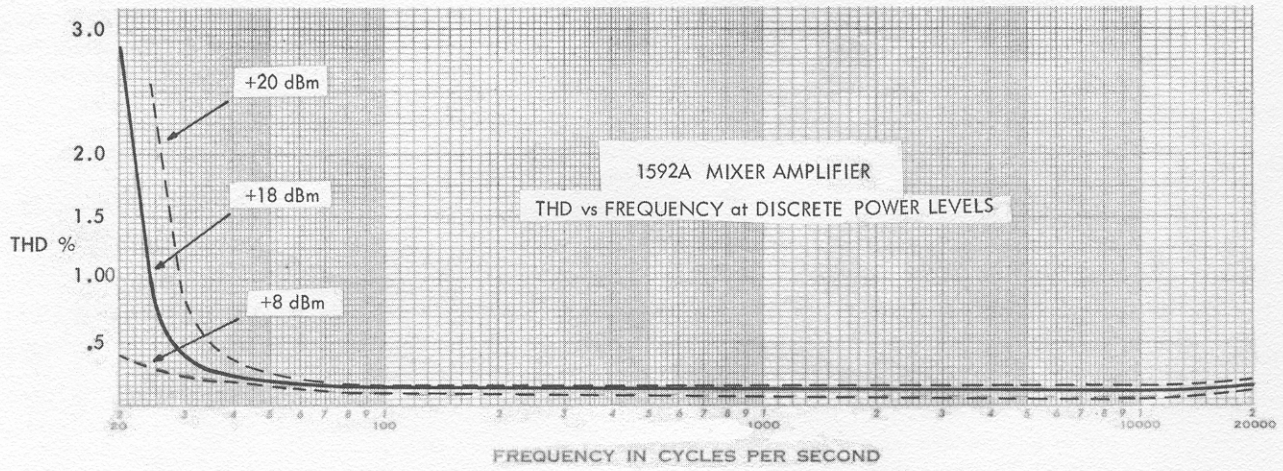

Figure 3

ADDITIONAL ALTEC FEATURES

1. BUILT-IN TEST TONE (nominally 1000 Hz) to aid in setting system levels, adjusting compressor thresholds, and checking multiple-speaker arrangements. The Test Tone is switch-activated on the equipment front-panel, and its level is adjusted by the Mixer-1 Control.

2. MONITOR PHONE JACK AND VOLUME CONTROL.

   An independent monitor winding is contained in the output transformer. The monitor output terminates in a standard headphone jack on the front-panel, with its own volume level control.