

342B Amplifier

342B



- Mixer Power Amplifier**
- Four microphone inputs**
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- 35-watt output**
- Four microphone inputs**
- Auxiliary input**
- Input matching for every type source**
- Master gain control**
- Bass and treble tone controls**
- Illuminated panel**
- Trim and compact**
- DC hum-free heaters**

The Altec 342B 35-watt combined amplifier and mixing preamplifier has a flexibility ideal for the small public-address system. It can be quickly tailored to the exact requirements of a given installation. It features four inputs with individual mixing volume controls. Any combination of four inputs can be used because of the unique built-in matching facilities. The input circuit of each of the four channels is equipped with a socket designed to receive the accessory to adapt that channel to the desired source, which may be a high- or low-impedance microphone, magnetic phonograph pick-up, tuner, tape recorder, or program line. This provides great flexibility in the initial installation and also makes it possible to modify or change the system to meet future requirements. An auxiliary input at the mixing level provides a connection point for line inputs, additional preamplifier inputs, or interconnection for a group of amplifiers.

In addition to the four input volume controls, there is a master control functioning on the final selected program material. Other controls include separate bass and treble, independent power switch, and a panel light providing illumination for script or cue sheet.

The dark green non-reflecting panel and green leatherette case are neat and unobtrusive and the amplifier will not interfere with the vision of the operator when placed on a table top. The front panel is inclined in order to facilitate viewing and operating of controls.

The 342B fulfills all requirements for a high-quality public address mixer-amplifier at moderate cost. While incorporating such professional features as DC operation of the tube heaters, to eliminate hum and the need for tube selection, the 342B remains ideal for the small-to-medium sized sound system where reliability, flexibility, and extended range are required with a minimum expense factor.



A Division of  Ling Altec, Inc.

1515 S. Manchester Ave., Anaheim, Calif.
New York

SPECIFICATIONS

| | |
|----------------------------------|---|
| Type: | 4 Channel Mixer Amplifier |
| Gain: | 115 db |
| Input Sensitivity: | .0023 volt rms for rated output |
| Power Output: | 35 watts at less than 2% thd, @ 1000 cps 35 watts at less than 5% thd, 45-12,000 cps |
| Frequency Response: | ±1 db, 20-20,000 cps |
| Input Impedance: | 22,000 ohms, nominal |
| Source Impedance: | 30/50 and 120/200 with 4722 Plug-in Transformer |
| Load Impedance: | 4, 8, 16 ohms and 70 v (150 ohms) line |
| Output Impedance: | Less than 20% of nominal load impedance |
| Noise Level: | Equivalent input noise —123 dbm Output noise —30 dbm with master volume control at zero |
| Controls: | 4 mixer, 1 master control; 1 bass, 1 treble control, 6 db boost, 10 db cut; all continuously variable, composition type. |
| Power Supply: | 117 volts, 60 cps, 110 watts |
| External Power Available: | 117 volt ac receptacle at rear of chassis |
| Tubes: | 3—12AX7, 1—6CG7, 2—7027, 1—GZ34/5AR4 |
| Dimensions: | 7" H x 19 $\frac{5}{8}$ " W x 8 $\frac{1}{8}$ " D With 12210 Assembly — 8 $\frac{3}{4}$ " H (rack space) x 19" W x 8 $\frac{1}{8}$ " D |
| Color: | Green |
| Weight: | 22 lbs. |

ACCESSORIES

See "Power Amplifier Accessories" sheet for:
4722 Plug-in Transformer
12864 Assembly—plug-in phono equalizer
12210 Assembly—rack mounting adapter
Cannon XLR-3-12 straight cord plug

ARCHITECTS AND ENGINEERS SPECIFICATIONS

The amplifier shall be so constructed that there is a choice of (A) portable, in green simulated-leather covered plywood cabinet, or (B) rack mounted with an available accessory. The amplifier shall include four mixer controls, one master volume control, one each bass and treble raise and cut equalizer controls, pilot light, and on-off switch. All controls shall be continuously variable and the control panel shall be visibly indexed and identified. The amplifier shall be so designed that any of four mixer positions may be used with high-impedance microphone or high-level line input or, by use of built-in input matching facilities, any or all of the mixer positions can be converted for low-impedance microphones, and two equalized for phonograph input. An amplifier not including these input matching facilities shall not be deemed acceptable under these specifications. It shall in addition to the four standard inputs have an auxiliary input to the wiring buss for use with supplementary equipment.

Power output shall be 35 watts with less than 2% total harmonic distortion at 1000 cps, and with less than 5% total harmonic distortion over the frequency range of 45 to 12,000 cps, the frequency response shall be ± 1 db from 20 to 20,000 cps, input impedances shall be 22,000 or 240,000 ohms with source impedances of 30/50 or 120/200 ohms (using the 4722 Plug-in Microphone Transformer). The over-all gain of the amplifier shall be not less than 115 db. The output impedance shall be less than 20% of nominal load impedance. Load impedance shall be 4, 8, 16, and 70 v (150 ohms) line.

The low-impedance microphone input matching device, where required, shall be of the plug-in type with not less than 60 db magnetic shielding, the equivalent input noise —123 dbm, output noise —30 dbm with master volume control at zero. The amplifier shall have a receptacle on the rear of the chassis for furnishing 117 v AC. The tube complement shall consist of three 12AX7, one 6CG7, two 7027, one GZ34/5AR4. The unit shall be finished in green and shall weigh in the order of 22 lbs.

The amplifier shall be Altec Lansing Model 342B.

NOTICE

We recommend that you obtain your Altec products from factory trained authorized Altec Sound Contractors and Distributors. This will assure you of proper installation, a continuing source of knowledgeable advice, service, and quick warranty protection.