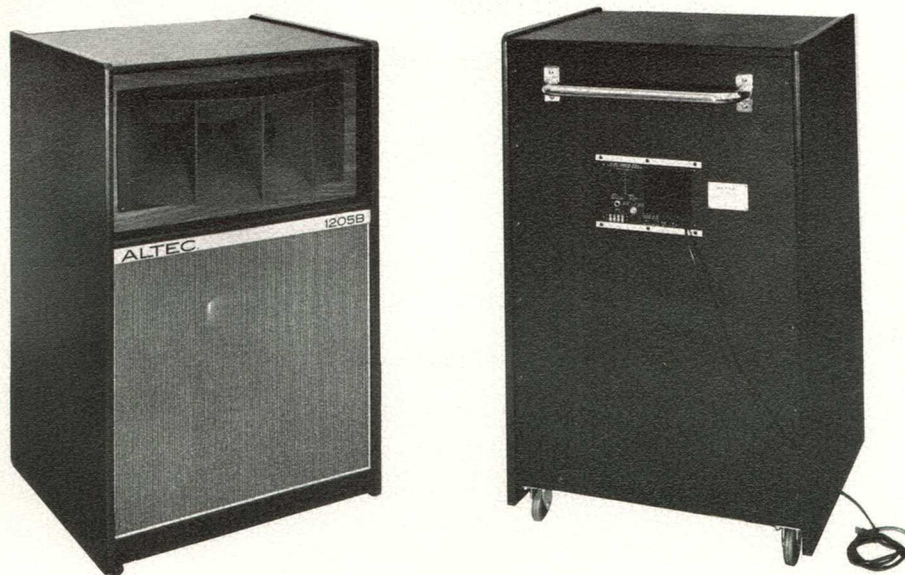


1205B Portable Bi-amplified Speaker System

1205B



ALTEC has combined the 711B Electronic Crossover Bi-amplifier with the 1204B Portable Nonpowered Speaker System to provide ALTEC's 1205B Portable Bi-amplified Speaker System. This combination of outstanding components is carefully matched to enhance listening enjoyment:

421A-type (423-8Z) Low-Frequency Musical Instrument Loudspeaker . . . 15" woofer for high efficiency in reproducing bass and mid-bass sounds. 3" edge-wound voice coil, rigid cast aluminum frame, powerful magnet.

511B High-Frequency Sectoral Horn . . . massive, cast aluminum, 25" wide. Operates from 500 or 800 Hz (selectable) to beyond audibility.

808-8A High-Frequency Driver . . . has an extremely rugged voice coil and diaphragm assembly that handles much more power than conventional drivers. Smooth response from 500 to 20,000 Hz.

771B Electronic Crossover Bi-amplifier . . . two separate power amplifiers that faithfully reproduce all frequencies . . . a 60-watt power amplifier for low frequencies from 35 to 500 or 800 Hz (selectable), and a 30-watt power amplifier for mid and high frequencies from 500 or 800 Hz to 20 kHz.

A sturdy wooden bass reflex enclosure provides excellent bass and mid-bass reproduction.

Electronic crossover occurs before the program signal is applied to the power amplifiers, thus ensuring distribution of full amplifier output to the system speakers. Results compare to a single amplifier speaker system with 175 watts power output, except that distortion is much lower than would be encountered in such a system.

Interconnection phone jacks on the 771B bi-amplifier allow connection of up to 20 additional 1205B units in a single sound system.

The 1205B is portable and includes steel front legs, rear roll-around casters, tow-bar handle, rugged vinyl covering and heavy vinyl edge bumpers. Standard phone jacks for cable connections and a 50-foot cable accessory make handling and setup easy.

Detailed specifications and descriptions of 1205B system components can be obtained from their respective ALTEC catalog sheets and brochures.

ALTEC®

A DIVISION OF ALTEC CORPORATION

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ALTEC 1205B

1205B SPECIFICATIONS

| | |
|---|--|
| Type: | Portable two-way biamplified sound reinforcement speaker system with wide-angle coverage |
| Power Output – Bass Amplifier: | 60 watts |
| Treble Amplifier: | 30 watts |
| Power Requirements: | 120V ac, 50/60 Hz – 17 watts at zero signal 90 watts at 30 watts output 135 watts at 90 watts output |
| Input Sensitivity (for Rated Output with Full Boost): | 0.5V rms direct 0.5V rms with 15335 Line Matching Transformer (high-level balanced-line matched input) 0.1V rms with 15095A Line Bridging Transformer (high-level balanced-line bridging input) |
| Pressure Sensitivity: | 104 dB SPL measured at 4' on axis with 1 watt input of pink noise from 100 Hz to 10 kHz (Ref.: 0.0002 dyne/cm ²). Equal to EIA rating of 57 dB SPL measured at 30' on axis with 1 milliwatt input. |
| Acoustic Output at Maximum Gain Settings – | |
| Direct Input (No Transformer): | 116.0 dB SPL measured at 4' on axis with 0.5V rms input of pink noise from 100 Hz to 10 kHz (Ref.: 0.0002 dyne/cm ²) |
| High-Level Balanced-Line Matched Input (15335 Transformer): | 116.0 dB SPL measured at 4' on axis with 0.5V rms input of pink noise from 100 Hz to 10 kHz (Ref.: 0.0002 dyne/cm ²). |
| High-Level Balanced-Line Bridging Input (15095A Transformer): | 116.0 dB SPL measured at 4' on axis with 0.1V rms input of pink noise from 100 Hz to 10 kHz (Ref.: 0.0002 dyne/cm ²). |
| Input Impedance: | 15,000 ohms direct (see BIAMPLIFIER SPECIFICATIONS) |
| Frequency Response: | 35 Hz to 20 kHz, normalized composite output (see Figure 1) |
| Crossover Frequency: | 800 Hz or 1500 Hz (selectable) with -12 dB/octave slope |
| Input Connections: | 2 standard ¼-inch phone jacks – or – Barrier-type terminal board for 600-ohm applications (requires transformer accessory module to be installed in biamplifier) |
| System Components: | 1 ALTEC 423-8Z Low-Frequency Musical Instrument Loudspeaker (421A-type) 1 ALTEC 511B High-Frequency Sectoral Horn 1 ALTEC 808-8A High-Frequency Driver 1 ALTEC 771B Electronic Crossover Biampifier |
| Enclosure: | Bass reflex type. ¾-inch plywood construction with vinyl covering and vinyl edge bumpers. Fitted with steel front legs, rear casters and tow-bar handle. |
| Dimensions: | 45" H x 28" W x 27½" D (114.30 cm H x 71.12 cm W x 69.85 cm D) |
| Weight: | 158 pounds (71.54 kg) |
| Optional Accessory: | ALTEC 1111A Vinyl Slipcover |
| Accessories – | |
| Included: | 50-foot cable with ¼-inch phone plug on each end |
| Optional: | ALTEC 15095A Line Bridging Transformer (high-level balanced-line bridging input) ALTEC 15335 Line Matching Transformer (high-level balanced-line matching input) |

NOTE

OPTIONAL ACCESSORIES MUST BE ORDERED SEPARATELY.

BIAMPLIFIER SPECIFICATIONS

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| Type: | Biampifier with electronic crossover |
| Gain (with Full Boost) – Bass Amplifier: | 52 dB with 15335 Line Matching Transformer 66 dB with 15095A Line Bridging Transformer |
| Treble Amplifier: | 49 dB with 15335A Line Matching Transformer 63 dB with 15095A Line Bridging Transformer |
| Input Sensitivity (for Rated Output with Full Boost): | 0.5V rms direct 0.5V rms with 15335 Line Matching Transformer (high-level balanced- line matched input) 0.1V rms with 15095A Line Bridging Transformer (high-level balanced-line bridging input) |
| Power Output – Bass Amplifier: | 60 watts at less than 0.5% THD |
| Treble Amplifier: | 30 watts at less than 0.5% THD |
| Total Harmonic Distortion (THD): | Less than 0.5% at rated power, 20 Hz to 20 kHz |
| IM Distortion: | Unmeasurable by normal IHF method |
| Crossover Frequency: | 500, 800 or 1500 Hz with -12 dB/octave slope |
| Frequency Response: | ±1 dB from 20 Hz to 20 kHz (normalized composite output) |
| Input Impedance: | 15,000 ohms direct 600 ohms with 15095A transformer 15,000 ohms with 15335 transformer |
| Load Impedance: | 8 ohms nominal for each amplifier |
| Damping Factor: | 25 |
| Noise Level: | 80 dB below rated output |
| Controls: | 1 BASS GAIN CONTROL, continuously variable, +6 dB to -15 dB 1 TREBLE GAIN CONTROL, continuously variable, +6 dB to -15 dB 1 ELECTRONIC CROSSOVER FREQUENCY switch, 500/800/ 1500 Hz. Use 800 or 1500 Hz for 1205B. 1 POWER switch 1 PRESS TO RESET pushbutton (circuit breaker) (771B only) 1 VOLTAGE SELECT switch (771BX only) |
| Power Requirements: | 120V ac, 50/60 Hz 17 watts at zero signal 90 watts at 30 watts output 135 watts at 90 watts output |
| Dimensions – Overall: | 6-1/2" H x 9-7/8" W x 9" D (16.51 cm H x 25.08 cm W x 22.86 cm D) |
| Panel Cutout: | 5-1/2" H x 9-1/2" W (13.97 cm H x 24.13 cm W) |
| Weight: | 16 pounds (7.26 kg) |
| Color: | Black |

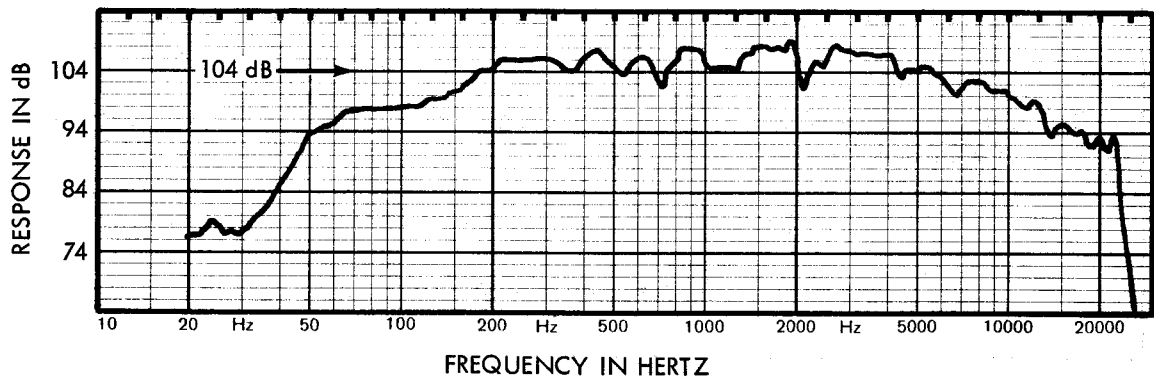


Figure 1. Frequency Response Measured at 4' on Axis with 1 Watt Input

ALTEC 1205B

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The speaker system shall be the two-way sound reinforcement type with a sturdy plywood bass reflex enclosure, a self-contained electronic crossover biamplifier, a 15" musical instrument type LF loudspeaker, an HF driver and a cast aluminum 25-inch sectoral horn having exponential expansion. A 50-foot, 2-conductor cable with standard phone plug at each end shall be included with the system.

The biamplifier shall contain a power supply capable of operating from a 120V ac, 50/60 Hz line, electronic crossover circuitry, separate LF and HF power amplifiers and fail-safe protective circuitry for its output transistors. All circuitry in the bi-amplifier shall be solid state, with all transistors and diodes of the silicon type. The biamplifier shall meet the following performance criteria. Amplifier outputs; 60 watts bass, 30 watts treble. THD at full rated output, less than 0.5% at all frequencies from 20 Hz to 20 kHz. Input sensitivity for rated output; 0.5V rms direct or with line-matching transformer accessory, 0.1V rms with line-bridging transformer accessory. Input impedance; 15,000 ohms direct or with line-matching transformer accessory, 600 ohms with line-bridging transformer accessory. Load impedance, 8 ohms nominal for each amplifier. Bass amplifier gain with full boost; 52 dB with line-matching transformer accessory, 66 dB with line-bridging transformer accessory. Treble amplifier gain with full boost; 49 dB with line-matching transformer accessory, 63 dB with line-bridging transformer accessory. Crossover frequency, 500, 800 or 1500 Hz (selectable) with -12 dB/octave slope. Each channel shall have a separate slide-type gain control, continuously variable from +6 dB to -15 dB.

The speaker system shall meet the following performance criteria. Frequency response, 35 Hz to 20 kHz (normalized composite output). Pressure sensitivity; 104 dB SPL when measured at 4' on axis with 1 watt input of pink noise from 100 Hz to 10 kHz (Ref.: 0.0002 dyne/cm²). Equivalent EIA rating, 57 dB SPL when measured at 30' on axis with 1 milliwatt input. Acoustic output for rated power at maximum gain settings; 116.0 dB SPL when measured at 4' on axis with 0.5V rms input of pink noise from 100 Hz to 10 kHz (Ref.: 0.0002 dyne/cm²). Crossover frequency, 800 or 1500 Hz, selectable. Gain control range from +6 dB to -15 dB. Dimensions, 45" H x 28" W x 27½" D. The speaker system shall be covered with black vinyl, have black vinyl edge bumpers, steel front legs, rear casters and tow-bar handle, and shall weigh 158 pounds.

The speaker system shall be the ALTEC Model 1205B Portable Biamplified Speaker System.

The 1205B shall be furnished with the following ALTEC accessories (select as required and insert quantity):

_____ 1111A Vinyl Slipcover _____ 15095A Line Bridging Transformer

_____ 15335 Line Matching Transformer