AKG BX-5 with...
"natural" reverberation TTL system

AKG acoustics

The new BX-5 is a compact reverberation unit utilizing the world-renown patented Torsional Transmission Line principle (TTL). It possesses the exceptional sound qualities inherent in the AKG BX-20 and BX-10E2 Reverberation Units, but is compactly designed in a rack-mount configuration.

The BX-5 is a single transmission line system with stereo inputs and outputs. Inputs and outputs are balanced, and levels and impedances are fully compatible with those commonly used in broadcasting and recording. Superior reverberation quality is assured through the patented AKG Torsional Transmission Line system, with highly accurate reverberation characteristics made possible by a series of springs whose transmission properties have been controlled by statistical variations of the spring parameters. Moreover, the Tortional Transmission Line system is the only reverb device . . . including live chambers *. . . which does not contain any of the dry input signal at its output, and yields flutter-free performance.* To maintain optimal reverb quality, the TTL system also provides a frequency-dependent decay-time characteristic. Truly balanced reverberation is obtainable at any decay-time setting.

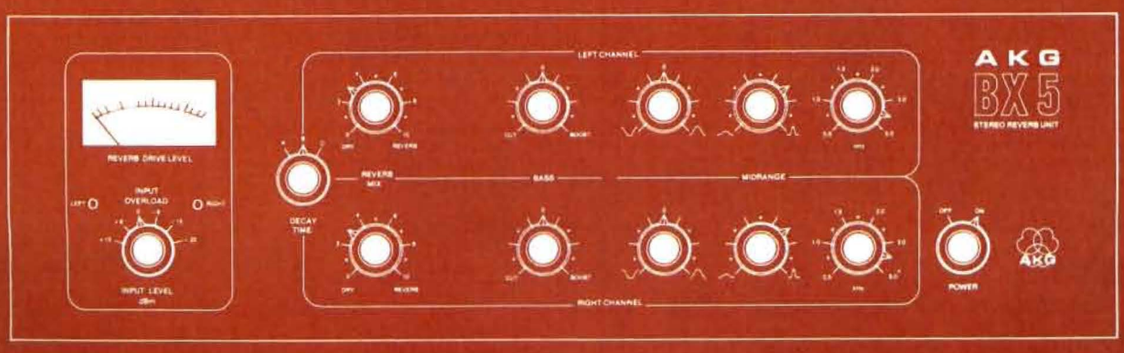
In recording studios, the BX-5 will find broad application as a primary reverb source, yet is economical enough to be placed in each control room for applications from mix auditioning to final mastering. In broadcast studios, it may be used with "live" voice to increase average modulation level, station "loudness" and to increase coverage area. It will also provide enhancement and special effects in the production of commercials. Musicians, performers and emerging recordists—familiar with the sound of "typical" spring reverberation units, will find the BX-5 an affordable addition to their equipment which far surpasses the sound heretofore available in this price range.

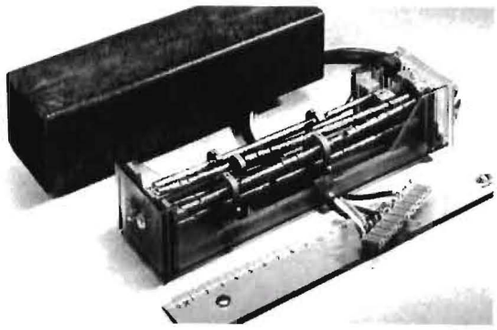
The BX-5 has a number of features in common with the AKG BX-20 and BX-10E2 Reverberation Units.

- Uses Torsional Transmission Line principle (patented)
- High density of resonant frequencies
- High pulse density to duplicate the many sound paths of naturally reverberant environments
- High degree of statistical diffusion in both frequency and time domains
- Linear frequency response for maximum range of applications
- Precise duplication of natural-room reverberation effects
- Adjustable input sensitivity
- Built-in limiters to prevent overdriving of inputs
- Built-in reverb/dry signal mixing
- No acoustic feedback... even when placed close to monitor loudspeakers
- No special mounting or isolation required for installation
- No locking or readjustments necessary for transportation
- No periodic maintenance, adjustments or "tuning"
- Standard three-pin professional audio connectors for all inputs and outputs

Additional features include:

- Built-in shelving-type low-frequency equalization
- Built-in "parametric" midrange equalization
- Nineteen-inch rack mount (three "rack units")
- Ganged input sensitivity control
- "VU" meter indication of input level—single meter automatically displays the higher level of the two input signals
- Separate LED overload indicators for each channel
- Three selectable decay times
- Ideally suited for van or mobile studio operation. Lightweight: 12 lbs.
- TTL system built on a slide-out module, accessible from the rear





Plug-in module, accessible from the rear of the BX-5 Reverberation Unit, shows the compact Torsional Transmission Line system outside of its housing.

TECHNICAL DATA

Decay Time	approximately 1½, 2½ or 3½ seconds
Nominal Input Level	−22, −12, −6, 0, +6, +12 dBm (re: 1 mW/600 ohms) Switchable, both channels ganged
Maximum Permissible Input Level	25 dB above selected nominal input level
Input Limiters	(affect reverb signal only) Threshold: 7 dB above selected nominal level Range: approx. 18 dB
Input Impedance	≥ 10k ohms, balanced (−12 to +12 dBm) ≥ 45k ohms, balanced (−22 dBm)
Dry/Reverb Output-Mix Facilities	Each channel independently and continuously adjustable for any dry-signal/reverb-signal output ratio ranging from pure dry signal only to pure reverb only
Nominal Output Level	−22, 0, +6 dBm (Selectable on printed wiring board; delivered wired for +6 dBm nominal level)
Maximum Output Level	Associated equipment should have input headroom of at least 20 dB over selected nominal output level to accommodate instantaneous peaks in reverb signal
Output Impedance	≤ 240 ohms, transformer balanced
Recommended Load Impedance	≥ 600 ohms
Frequency Range—dry-signal path	20-20,000 hertz
Frequency Range—reverb signal	50-8,000 hertz
Signal-to-Noise Ratio	Direct Signal: Weighted ≥ 78 dB; Unweighted ≥ 78 dB Reverb Signal: ≥ 71 dB; ≥ 67 dB
Equalization Controls	(independently and continuously adjustable for each channel) Low-frequency: ± 10 dB at 100 Hz (shelving type) Mid-range: ± 15 dB; adjustable "Q" (bandwidth), center frequency adjustable 500-5,000 hertz (parametric type)
Power Requirements	120/220 V, 50-60 hertz
Dimensions	19" wide x 5¼" high x 10" deep
Weight	12 lbs.

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