

Portable Audio Console

TYPE BC-10A

FEATURES

- Portable dual turntable console simplifies remote operations
- Individual mixing controls for two turntables, plus switchable input for either of two microphones or remote input
- Solid state circuitry throughout
- Excellent frequency response—within ± 2 db 70 to 15,000 cps
- Break-down construction, console legs store in bottom recess for easy storage



DESCRIPTION

The Type BC-10A Portable Audio Console is a completely self-contained unit that greatly simplifies the problem of on-the-spot broadcasts and setting up of remote studios. The console has dual three-speed turntables with complete provisions for mixing as well as cueing recordings. A third mixer is available for use with either of two microphones or a remote line. A 50-db pad in the remote input permits a high level program source such as a tape recorder or remote amplifier to be fed into this position and controlled on the microphone fader.

The BC-10A Console features break-down construction which permits it to be conveniently transported. The four

console legs, when not in use, are stored in clips affixed to the bottom recess of the console. The durable fibreglas unit weighs less than 68 pounds.

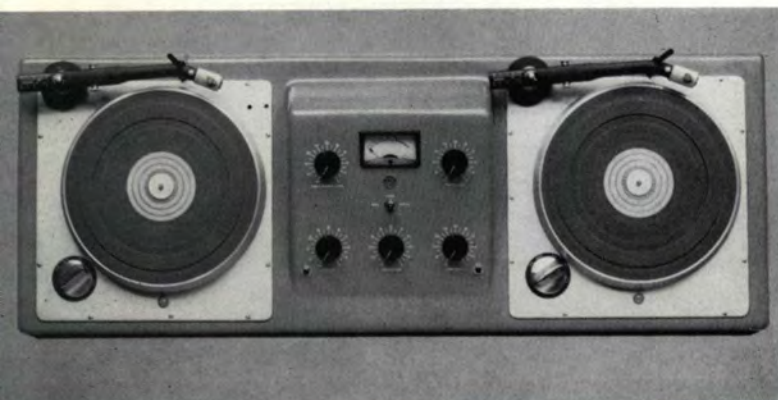
The BC-10A is designed to give maximum performance. Frequency response is within plus or minus 2 db from 70 to 15,000 cps on the microphone channel. The turntable channels have built-in RIAA equalization and properly equalize the GE 4G-050 cartridge. Normal output level is plus 6 VU at 3 per cent or less distortion 70 to 10,000 cps. All preamplifiers as well as the remote amplifier and power supply utilize solid state devices.

Operating controls are conveniently located on a sloping panel between the two three-speed turntables. Three faders controlling the two turntable inputs and the microphone-remote input are at the bottom of the panel. In the center is the three-way microphone-remote switch. The PA level control for feeding to external PA equipment is located above to the left and the Master Gain Control to the upper right of the panel. An illuminated VU meter is provided in the upper center of the panel.

The receptacles for two microphones, terminals for the broadcast line, PA feed and monitor jack are located in

5MB

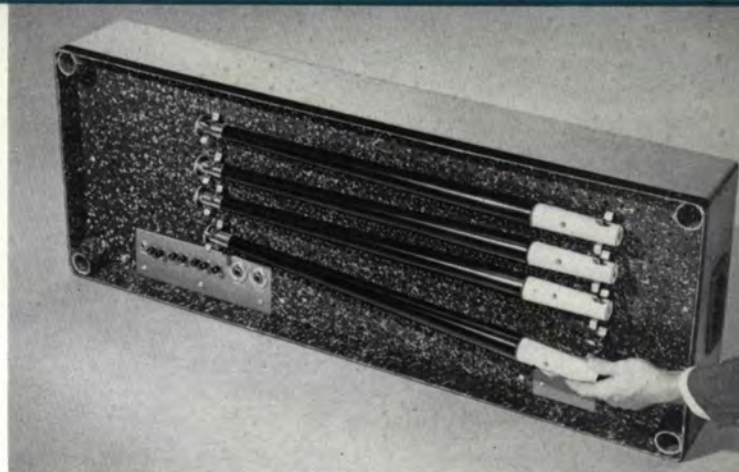
Close-up top view of audio console.



the audio panel on the bottom of the console under the left turntable. The AC receptacle and fuse are located on the AC panel under the unit on the right side. Earphones, when plugged into the phone jack on the audio panel, can be used to monitor the program being fed to the broadcast line or to cue the records on either turntable. High impedance earphones should be used for monitoring.

Electrical Description

The BC-10A employs etched wiring circuitry for the transistor amplifiers. The regulated power supply is located on a separate panel and uses diodes as full wave rectifiers. The turntable preamplifiers are equalized to the standard RIAA curve. The microphone preamplifier is similar to the turntable preamplifier but has flat response. The use of thermistors keeps the distortion low and the output constant if the ambient temperature exceeds 100 degrees. The unit is capable of operating in temperatures up to 150 degrees F.



Bottom of BC-10A Console showing leg storage rack, audio panel at left, and AC receptacle at right.

The BC-10A's output is fed through a 3 db isolation pad to the broadcast line terminal and through isolation resistors to the monitor phone jack. A bridging transformer is used to isolate the feed to the PA system. A separate fader is used to control PA level.

SPECIFICATIONS

Frequency Response:
 Microphone Channel.....Within ± 2 db 70 to 15,000 cps
 Phono Channels.....Built in RIAA equalization and will properly equalize when used with a GE 4G-050 cartridge

Output Level and Distortion
 (after built-in 3 db pad).....+6 VU at 3% or less distortion
 70-10,000 cps normal; +12 VU maximum is emergency level

Signal to Noise on Microphone Channel.....56 db, relative noise at the input is -106 dbm

Power Line.....117 volts, single phase, 60 cycles

Transistor and Diode Complement:
 13-2N241A, 4-1N1488, 1-2N456, 1-1M12210

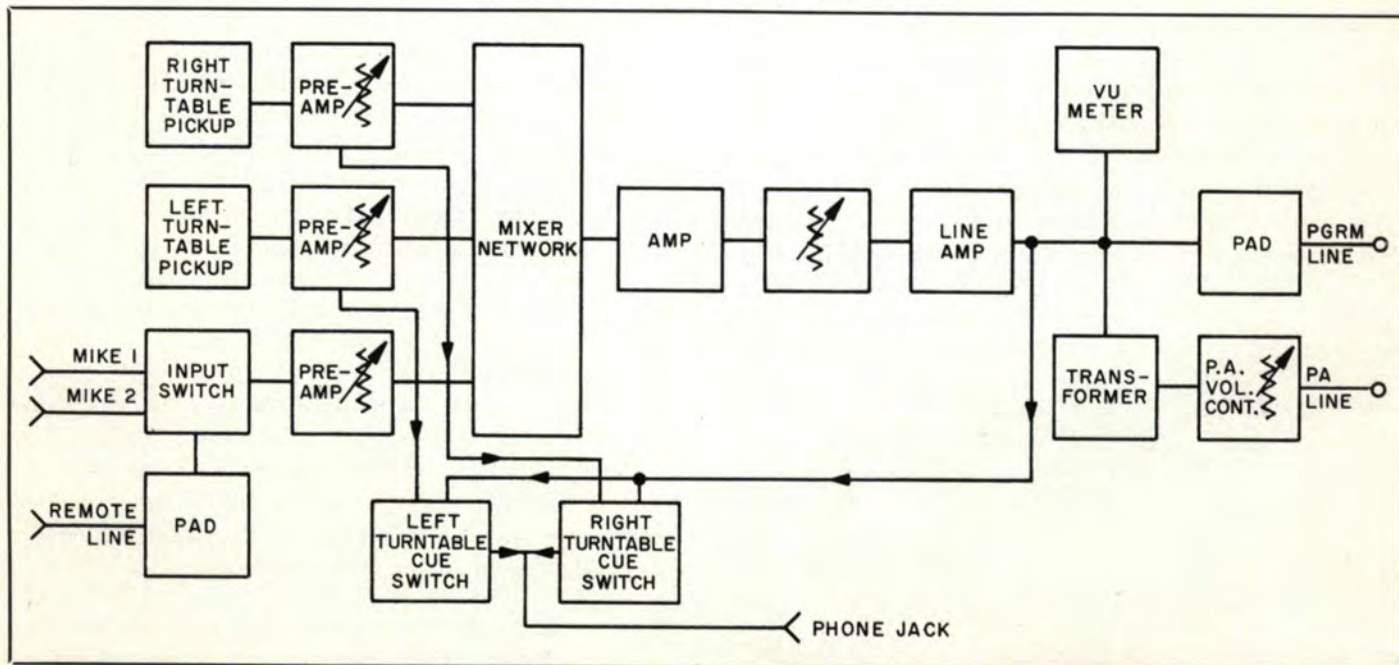
Dimension Overall.....44" long, 16 1/2" wide, 10" high
 Standing Height31"

Weight.....68 lbs. approx.

Ordering Information

Type BC-10A Portable Audio Console complete, with two turntables, tone arms and pickups including power cord and plug.....MI-11655-A

Block Diagram of BC-10A Portable Audio Console.



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 Broadcast & Television Equipment
 Camden, N. J.