

# Microphone - Amplifier

TYPE BN-10A

## FEATURES

- Combines miniature microphone and transistor remote amplifier in convenient hand-held package
- Speech output level of +6 V.U. sufficient to feed phone lines direct
- Self-powered by small mercury battery
- Plug-in earphone for checking performance and receiving "cue" over phone line
- Wide-range frequency response



BN-10A Microphone Amplifier with case removed showing BK-6 Personal Type Microphone, remote amplifier, chamber, battery power supply and base with plug-in provision for cue earphone.

## DESCRIPTION

The RCA Type BN-10A comprises a single channel remote amplifier to which has been added the miniature dynamic microphone to produce a compact microphone/remote amplifier easily held in one hand. The unit weighs less than a pound and is completely self-contained including its transistor amplifier and battery power supply. The +6 V.U. output of the microphone/amplifier is more than adequate for feeding telephone lines.

The BN-10A affords broadcasters a lightweight unit capable of handling single microphone remotes without the use of large remote amplifiers. The BN-10A is ideal for interviews, sports announcements, on-floor convention reports, and other remote broadcast uses. A built-in earphone jack makes it easy to hear telephone line cues as well as monitor the BN10A output.

The microphone used in BN-10A equipments is RCA's Type BK-6B personal microphone designed for correct speech balance. The BK-6B has a frequency response of 80 to 12,000 cycles and it has semi-directional characteristics. The microphone chamber is completely sealed and isolated from the amplifier section to assure optimum performance of the microphone.

The built-in amplifier employs transistors. The circuit is designed for very low battery drain thus securing about 50 hours of service from the single E-134 mercury battery which is easily inserted in the BN-10A. The distortion of

the amplifier is less than 2 per cent for normal output. The amplifier itself has a frequency response of  $\pm 1.5$  db from 50 to 15,000 cycles.

A 30-foot line cord for connection to the phone line is supplied as well as a lightweight earphone. The earphone plugs into the base of the BN-10A. The battery is automatically turned on whenever the line cord is plugged into the BN-10A. The body of the BN-10A is finished in a low luster gray enamel. A convenient carrying case which accommodates microphone/amplifier, cord and earphone is also supplied with the BN-10A.

## SPECIFICATIONS

Frequency Response.....	80-12,000 cps
Distortion .....	2% maximum
Output Level (for normal speech).....	+6 V.U.
Load Impedance.....	600 ohms
Line Cord.....	30 ft. flexible, with cannon plug
Overall Dimensions.....	11 $\frac{3}{4}$ " long by 1 $\frac{1}{8}$ " dia.
Weight .....	14 oz.
Finish.....	Low luster gray
Battery .....	Eveready E-134

## Ordering Information

Type BN-10A Microphone/Amplifier complete with 1 cord and plug, 1 E-134 battery, 1 carrying case, and 1 Earphone .....MI-11023-A

5MB



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